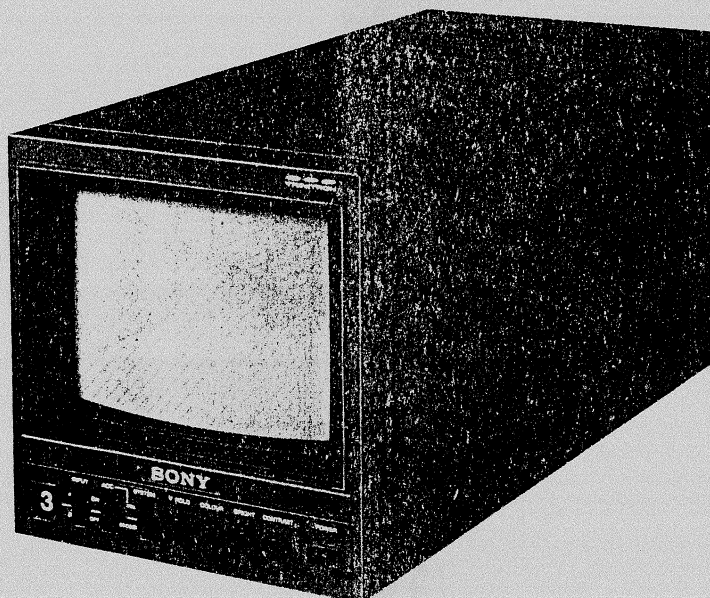


PVM-9010ME

Chassis No. SCC-247B-A




TRINITRON® COLOUR VIDEO MONITOR

SPECIFICATIONS

Television System:	CCIR TV standards (system B and G)
Colour System:	PAL/SECAM
Picture Tube:	22 cm, 9" (screen measured diagonally), 70° deflection TRINITRON system
Video System:	R.G.B. cathode drive
Video Input:	0.7 Vp-p non-composite or 1 Vp-p composite video signal ± 6 dB positive
Sync Input:	4 Vp-p ± 6 dB negative
Video/Sync Input	
Impedance:	High-impedance for loop-through 75 Ω terminated
Anode Voltage:	18 kV at zero beam current
Power Requirements:	220/240 V ac 50/60 Hz
Power Consumption:	60 W ac (max.)
Dimensions:	Approx. 216 (w) x 229 (h) x 521 (d) mm 8½ (w) x 9¼ (h) x 20½ (d) inches including projecting parts and controls Approx. 216 (w) x 220 (h) x 521 (d) mm 8½ (w) x 8⅝ (h) x 20½ (d) inches excluding bottom feet
Weight:	Approx. 12 kg (26 lb 7 oz)
Supplied Accessories:	Number plates Instruction manual

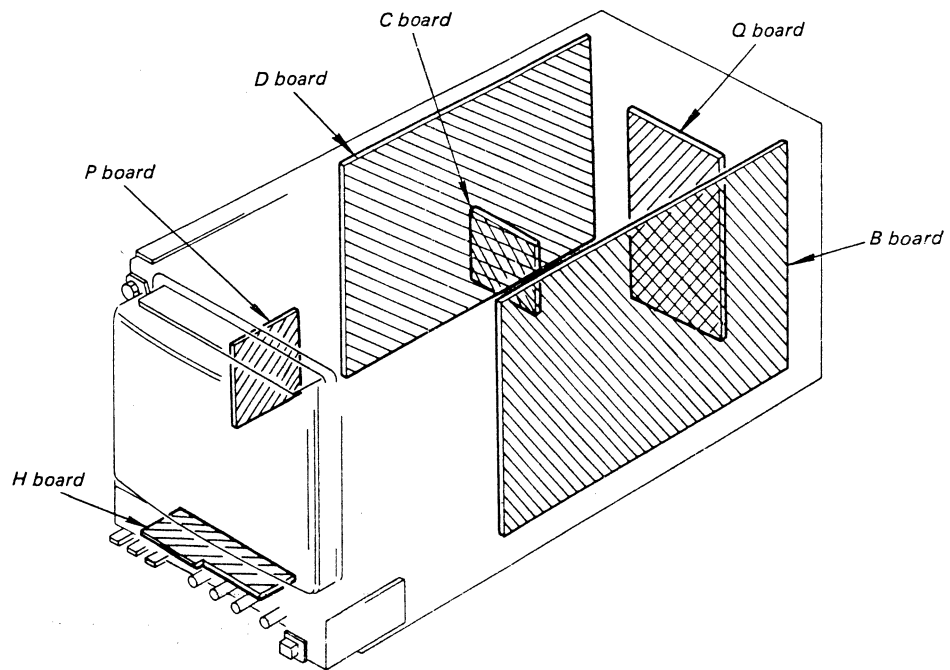
SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

SONY®

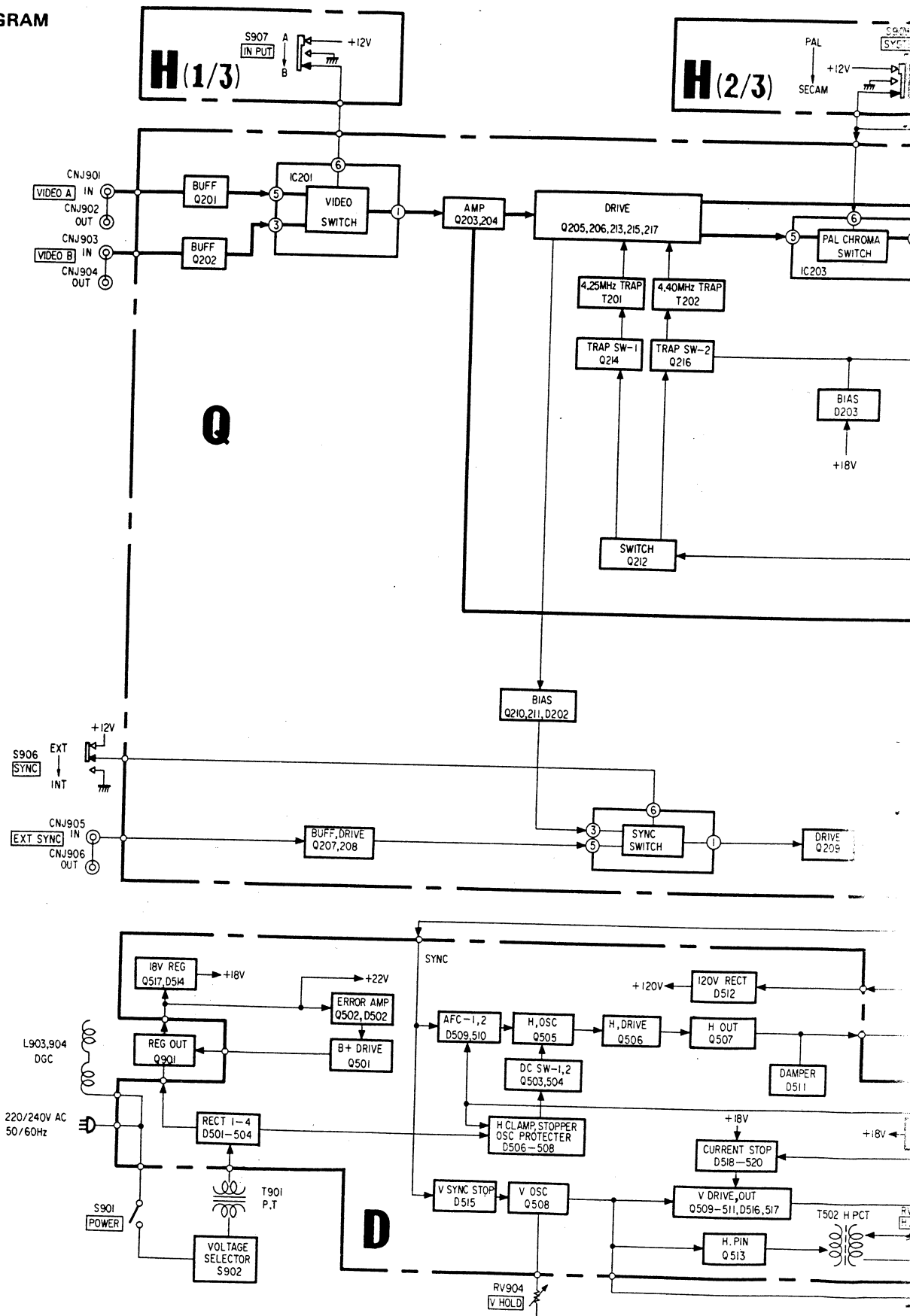
SERVICE MANUAL

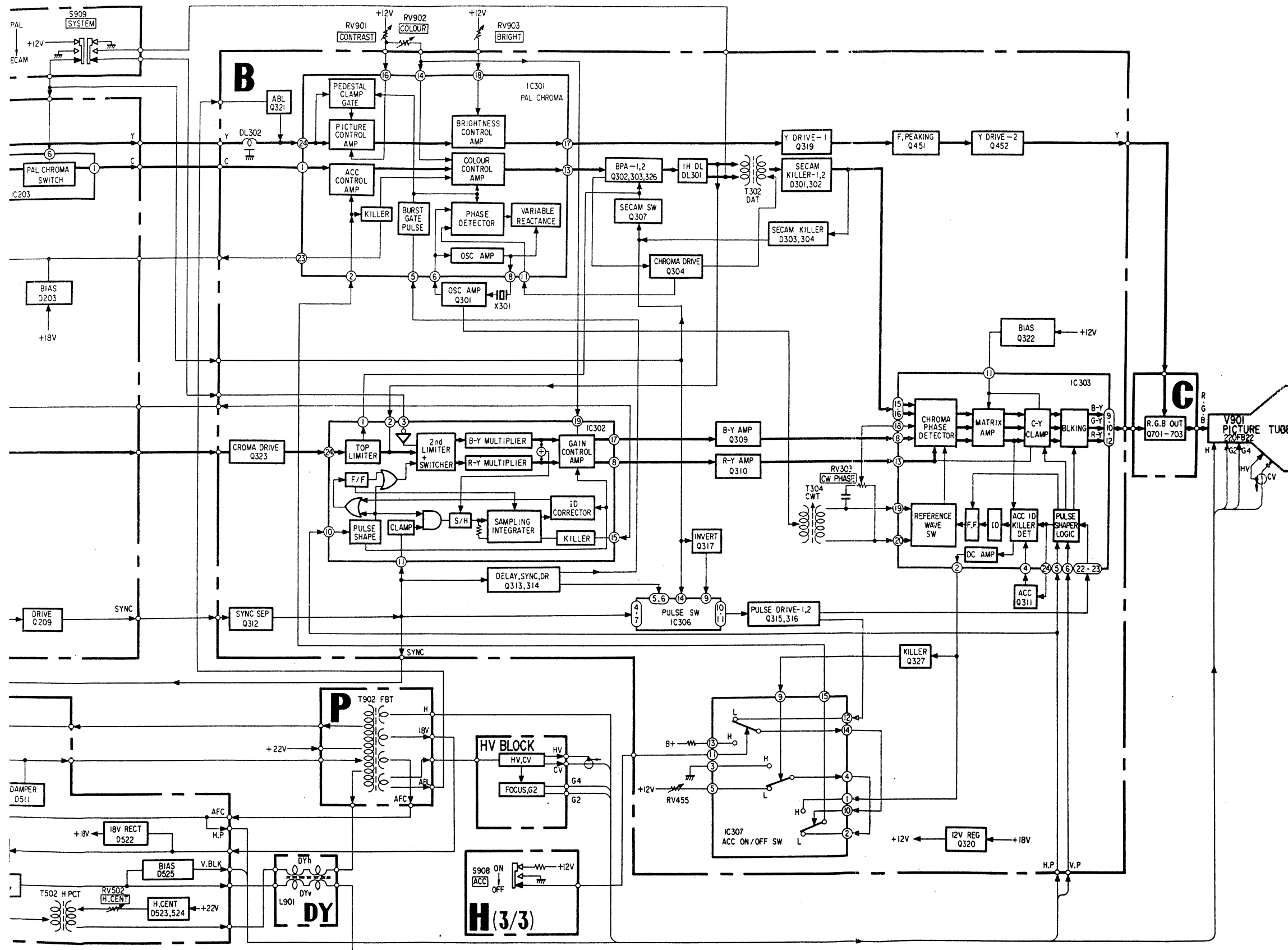
CIRCUIT BOARDS LOCATION



SECTION 1 OUTLINE

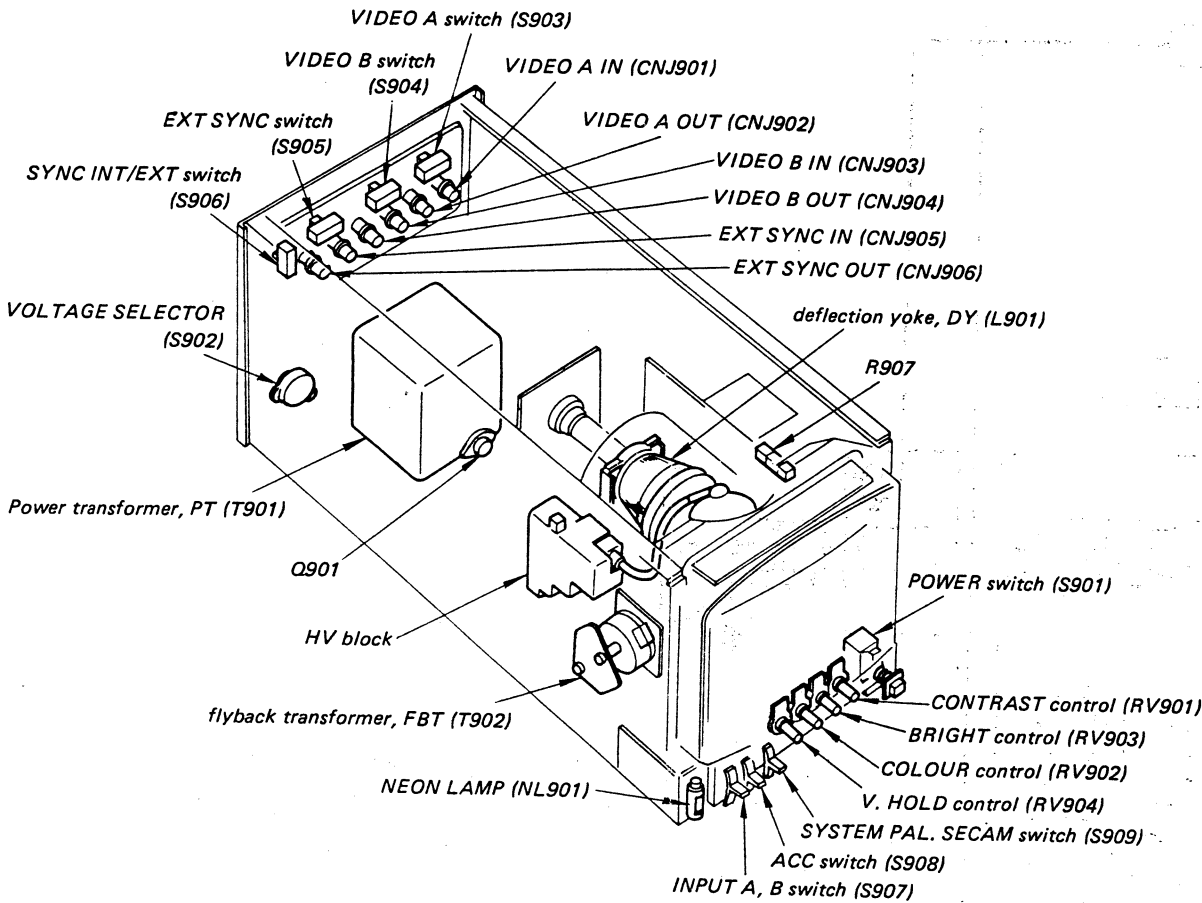
1-1. BLOCK DIAGRAM



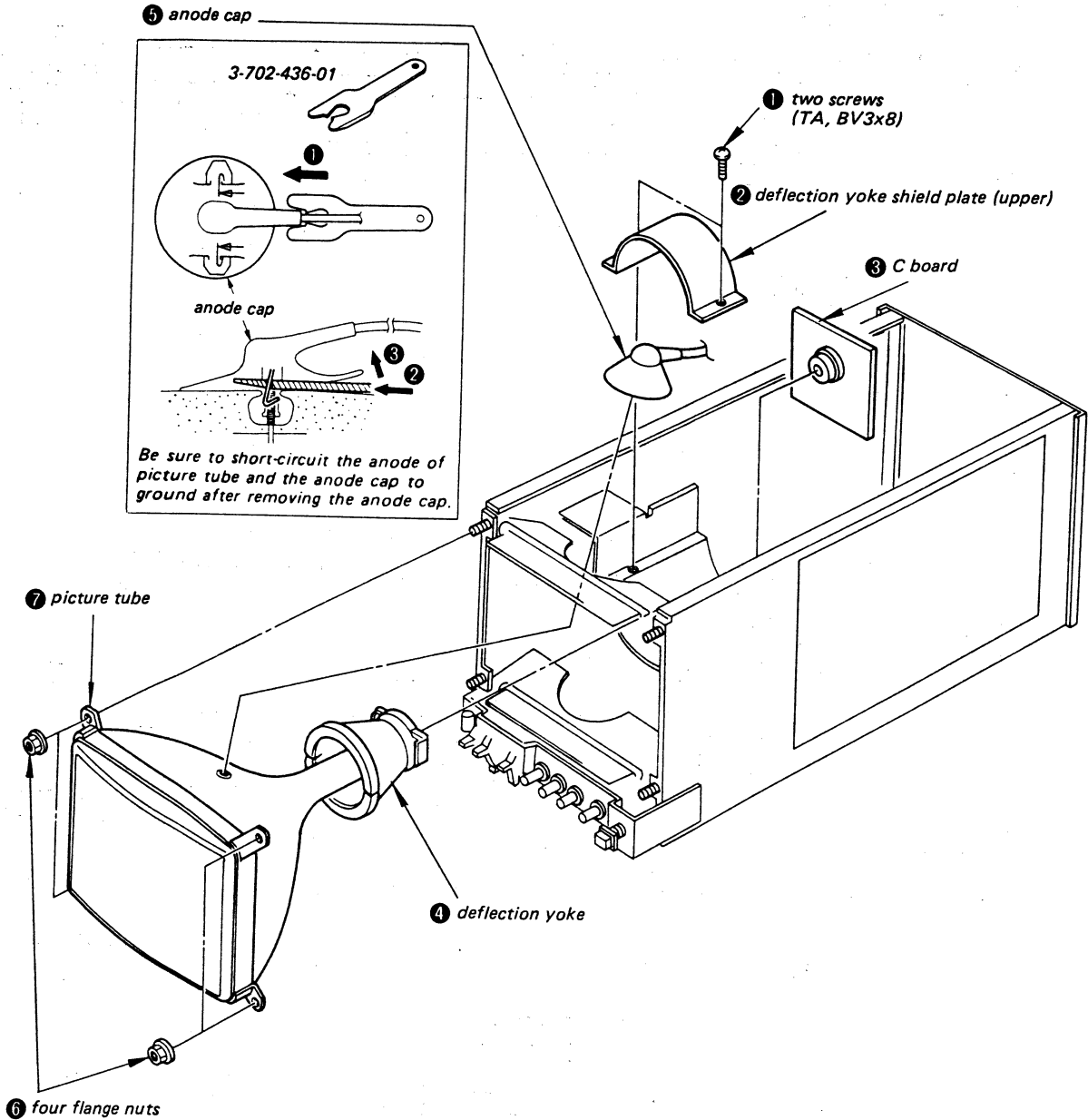


SECTION 2
DISASSEMBLY

1-2. INTERVAL VIEW

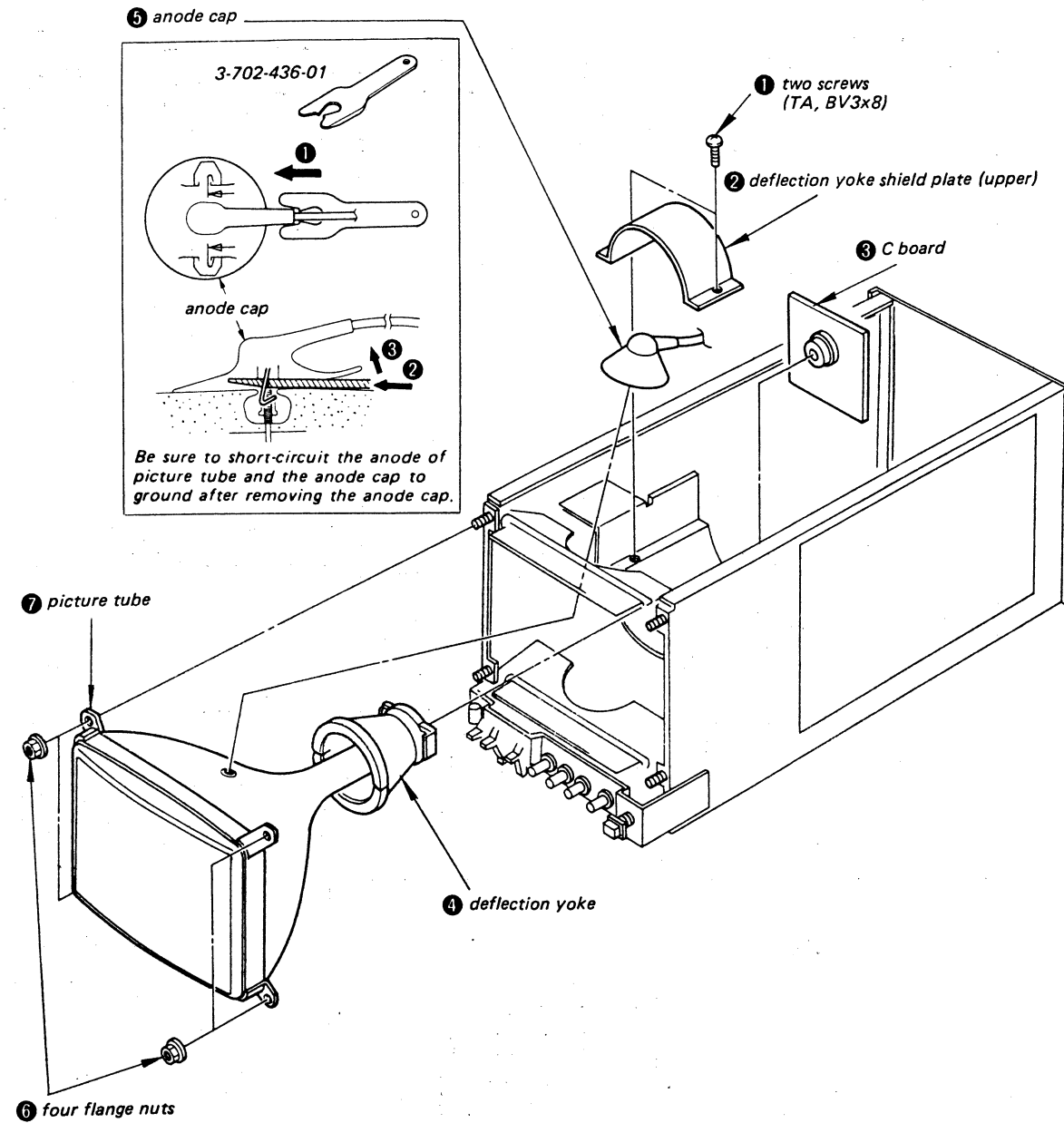


2-1. PICTURE TUBE REMOVAL

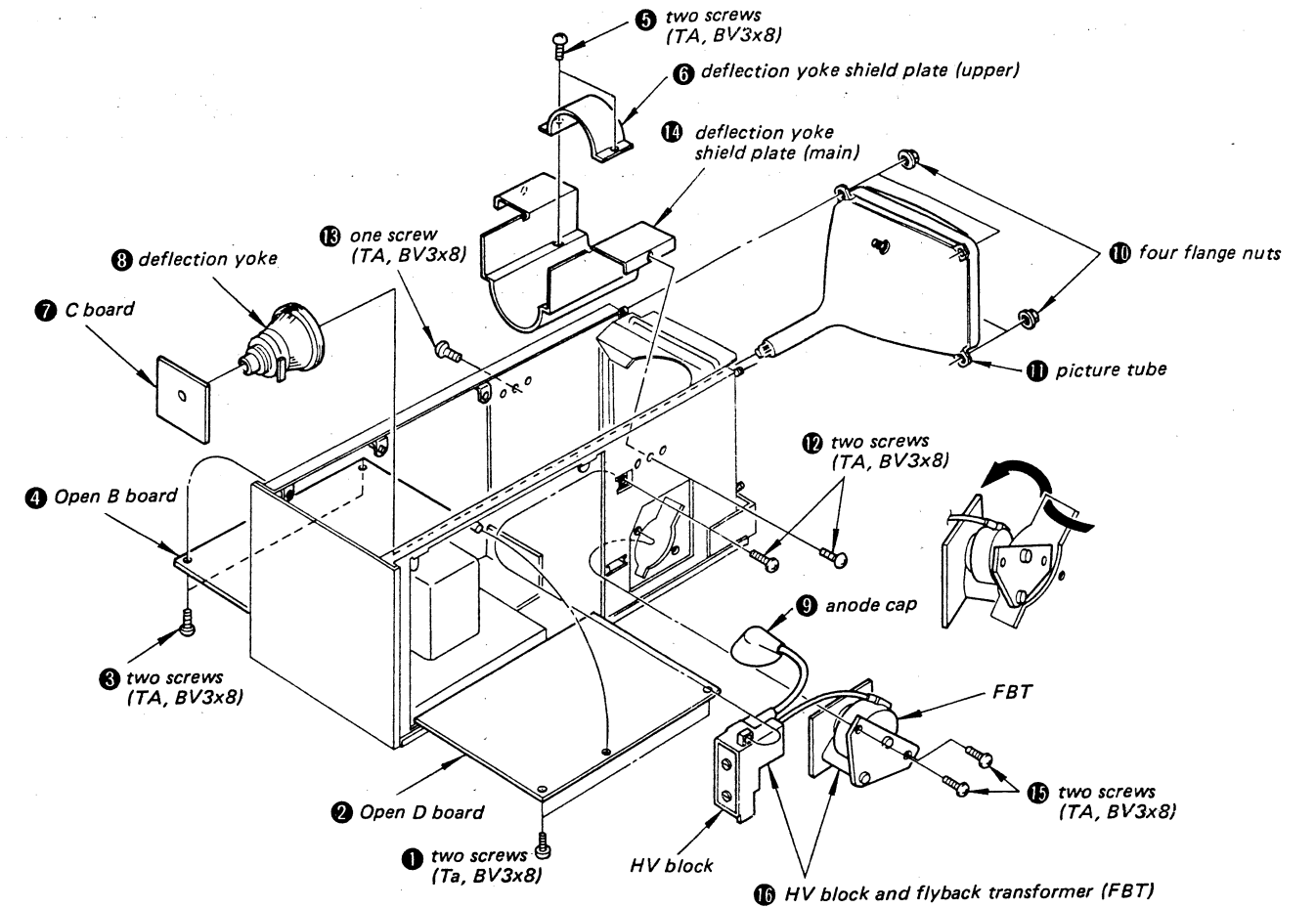


SECTION 2 DISASSEMBLY

2-1. PICTURE TUBE REMOVAL

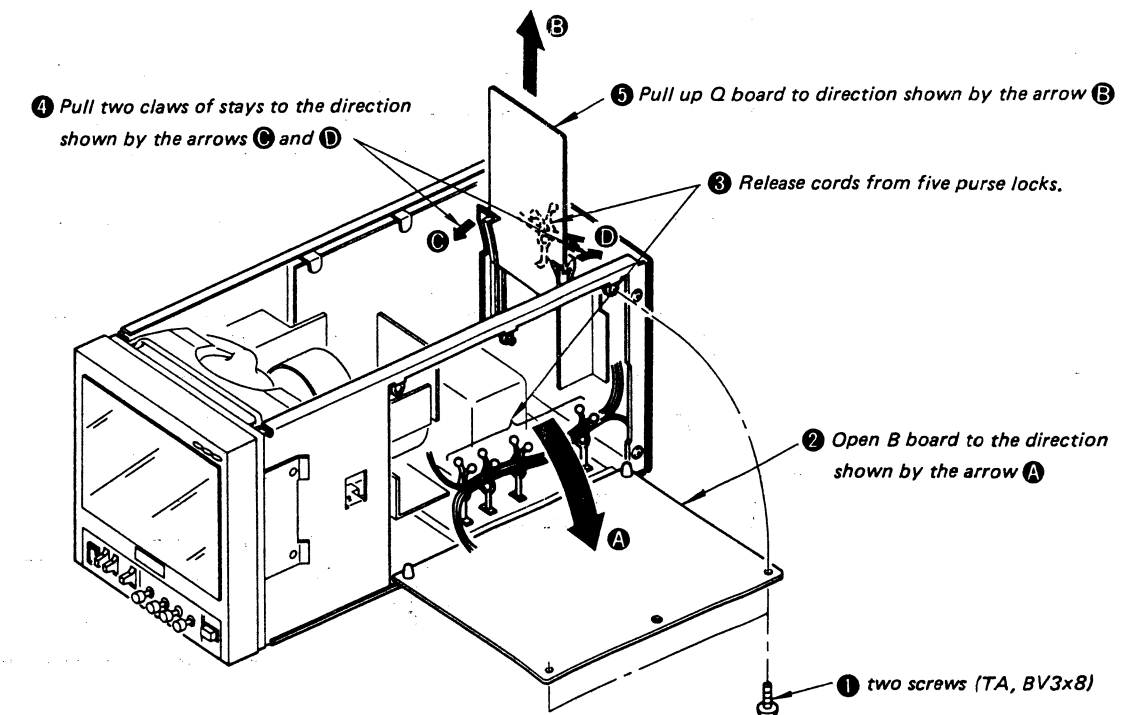


2-2. HV BLOCK AND FLYBACK TRANSFORMER REMOVAL



2-3. CHECKING Q BOARD UP

Position the set as shown below.



SECTION 3 SETUP ADJUSTMENTS

SCC-247B-A

PVM-9010ME PVM-9010ME

SCC-247B-A

Note: (1) Remove the deflection yoke shield plate for the following adjustments and be sure to install it after adjustments.

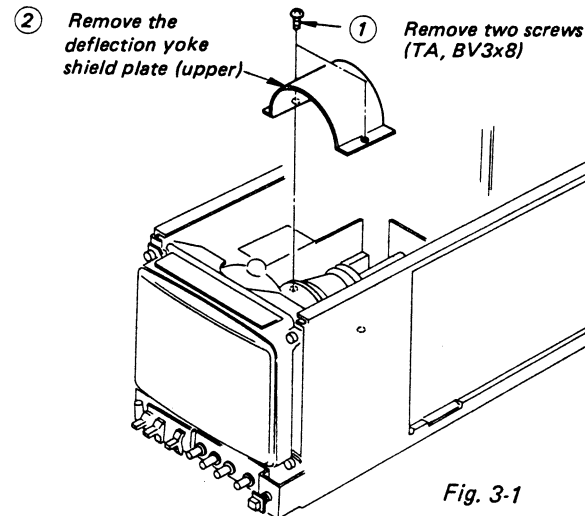


Fig. 3-1

- (2) The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- (3) These adjustments should be performed with the rated power supply voltage unless otherwise noted.

Controls and switches should be set as follows:

CONTRAST control } maximum
BRIGHT control } (fully clockwise)

Make the following adjustments in the order given.

1. Beam Landing
2. Focus
3. Convergence
4. White Balance

Note: Test Equipment Required.

1. Colour-bar/Pattern Generator
2. Degausser
3. Video tuner

3-1. BEAM LANDING

Preparation:

- Feed in the white pattern signal to VIDEO IN/OUT connector through video tuner from colour-bar/pattern generator.
- Before starting, degauss the entire screen.

1. Loosen deflection yoke screw.
2. Remove deflection yoke spacers.
3. Adjust purity magnet tabs as shown in Fig. 3-2.
4. Slide deflection yoke as far forward as it will go.
5. Disconnect resistors R714 and R715 on the C board.
6. Adjust purity magnet tabs to center vertical green band as shown in Fig. 3-3.
7. Slide deflection yoke back for a uniform green screen.

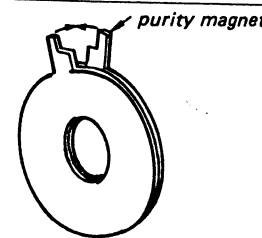


Fig. 3-2

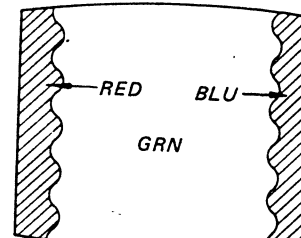


Fig. 3-3

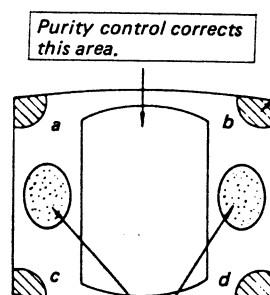


Fig. 3-4

9. Tighten the deflection yoke screw.
10. Install the deflection yoke spacers.

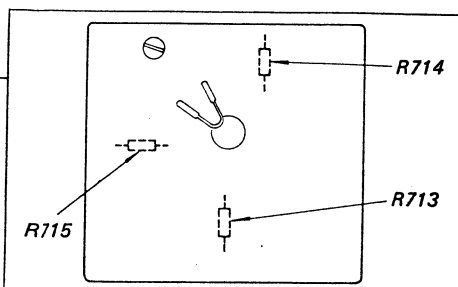


Fig. 3-5

3-2. FOCUS

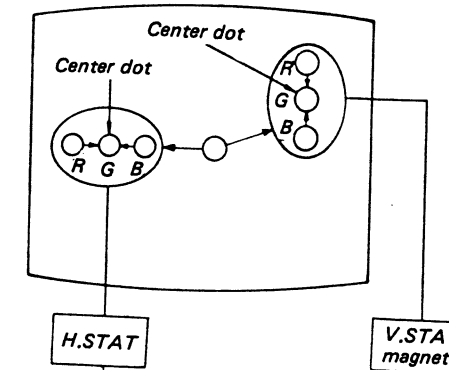
Adjust FOCUS control for best focus.

3-3. CONVERGENCE

Preparation:

- Before starting, perform FOCUS, and V. SIZE adjustments.
- Turn BRIGHT control fully counterclockwise, and set CONTRAST control to mechanical center.
- Feed in the dot pattern.

(1) Horizontal and Vertical Static Convergence



If blue dot does not coincide with red and green dots; Rotate BMC magnet tabs to correct insufficient H and V static convergence. After rotating the BMC magnet tabs, perform Beam Landing Adjustment.

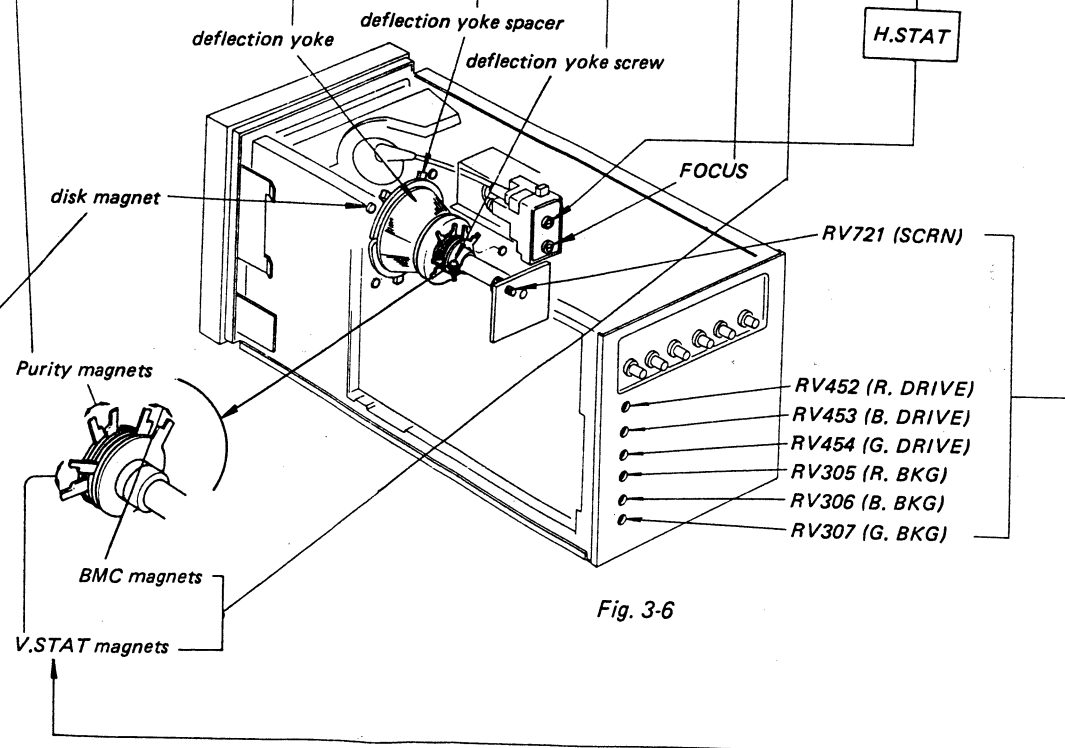


Fig. 3-6

3-4. WHITE BALANCE

1. Turn COLOUR, BRIGHT and CONTRAST controls fully counterclockwise.
2. Turn R. DRIVE (RV452), G. DRIVE (RV454) and B. DRIVE (RV453) controls fully clockwise.
3. Set R. BKG (RV305), G. BKG (RV307) and B. BKG (RV306) controls to mechanical center.
4. Turn SCRN (RV721) control slowly to obtain a faintly visible cross-hatch. Note the colour that first becomes visible by turning SCRN control. Do not turn a BKG control for this colour.
5. Adjust the other two BKG controls for best white balance (neutral gray) of the faint cross-hatch.
6. Turn BRIGHT and CONTRAST controls fully clockwise. Observe the screen and adjust the DRIVE controls for best white balance.
7. Repeat Steps 1 through 6 several times.

11. Check if mislanding appears at corners a-d as shown in Fig. 3-4. If mislanding is observed, correct it as shown in Fig. 3-4.
12. Confirm that beam landing is correct when the receiver is faced in all directions.

(2) Dynamic Convergence Adjustment

Preparation:

- Before starting, perform Horizontal and Vertical Static Convergence Adjustment.
1. Loosen deflection yoke screw.
 2. Remove deflection yoke spacers.
 3. Move the deflection yoke for best convergence as shown in Fig. 3-7.
 4. Tighten the deflection yoke screw.
 5. Install the deflection yoke spacers.

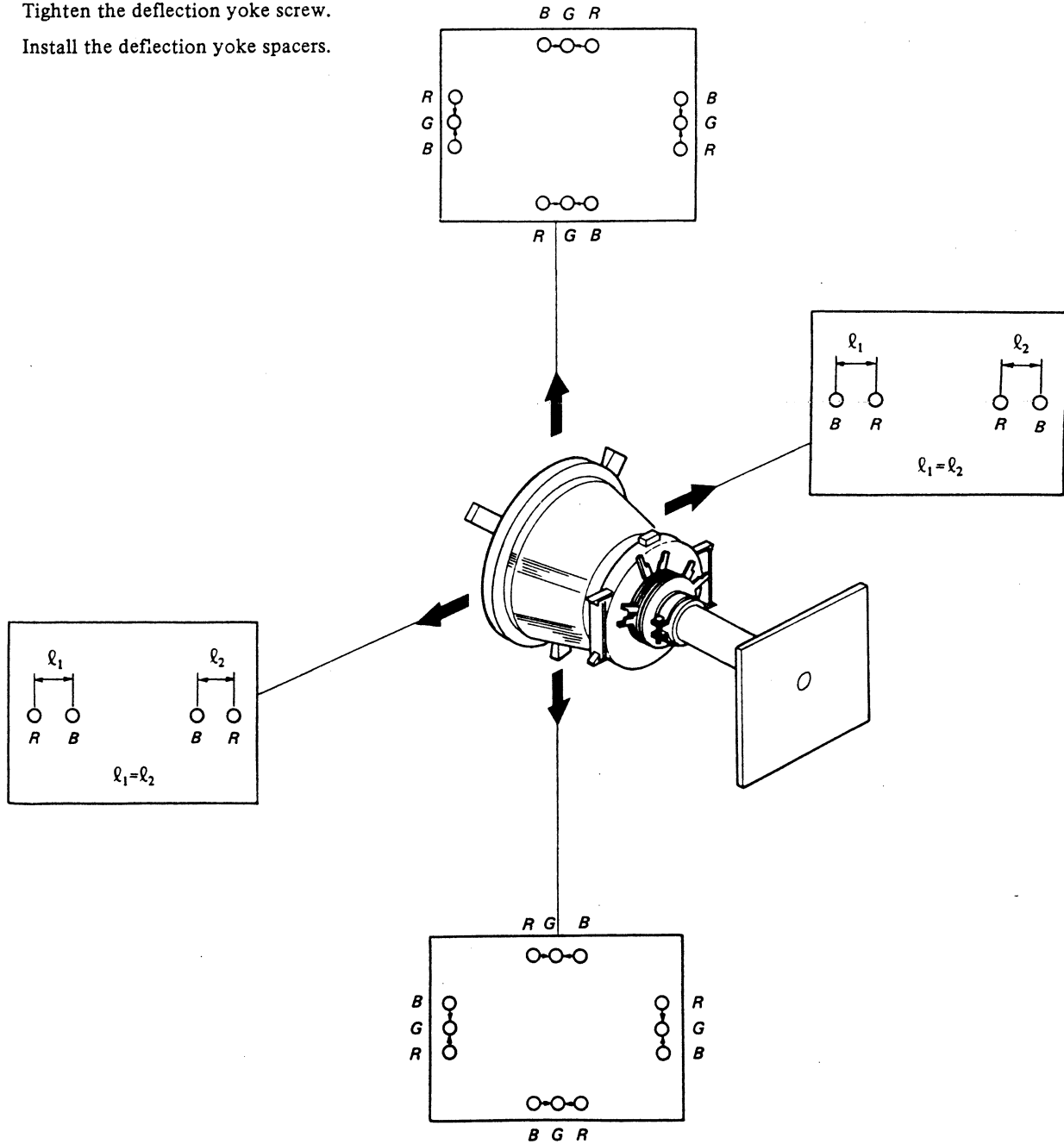


Fig. 3-7

SECTION 4 CIRCUIT ADJUSTMENTS

Note: (1) TEST EQUIPMENT REQUIRED

1. Oscilloscope
2. Variable autotransformer
3. Digital multimeter
4. Colour-bar/pattern generator
5. PAL Signal generator (TEKTRONIX 141)
6. Video tuner
7. Regulated-dc power supply
8. Isolation transformer
9. Digital multimeter

(2) INPUT SIGNAL

When making these adjustments, feed a crosshatch, colour-bar or dots pattern signal to VIDEO IN/OUT connector through video tuner.

(3) CONTROL AND SWITCH SETTINGS

Controls and switch should be set as follows when making adjustments unless otherwise noted.

CONTRAST control	} Set for best picture.
BRIGHT control	
COLOUR control	
ACC switch ON	

- (4) These adjustments should be performed with the rated power supply voltage unless otherwise noted.

(5) CIRCUIT ADJUSTMENTS

Adjustment	Circuit Board	Page
ACC U PHASE DELAY LINE APC CHROMA LEVEL R-Y DISCRI B-Y DISCRI BELL FILTER	B	13, 14
* R535 adjustment B+ adjustment * R511 adjustment H. FREQ PINCUSHION AMP	D	15, 16
4.40 MHz TRAP 4.25 MHz TRAP	Q	17, 18

4-1. B Board Adjustment

U PHASE

1. Feed in a PAL colour-bar signal.
2. Short-circuit between the pin 1 of IC303 and ground with a jumper during this adjustment.
3. Connect an oscilloscope (C) to the pin 1 of B-11 connector.
4. Adjust T304 to minimize Anti-PAL signal as shown (R-Y).
5. Connect an oscilloscope (D) to the pin 2 of B-11 connector.
6. Adjust RV303 to minimize Anti-PAL signal as shown (B-Y).

DELAY LINE

1. Feed in a PAL colour-bar signal.
2. Short-circuit between the pin 1 of IC303 and ground with a jumper during this adjustment.
3. Connect an oscilloscope (D) to the pin 2 of B-11 connector.
4. Adjust RV301 and T302 for correct waveform as shown.

APC

1. Feed in a PAL colour-bar signal.
2. Short-circuit between the pins 9 and 10 of IC301 with a jumper during this adjustment.
3. Adjust T303 to synchronize the colour picture.

ACC

1. Tune in a strong off-air signal to VIDEO IN/OUT connector through video tuner.
2. Set ACC switch to ON.
3. Set CLOUR control to mechanical center.
4. Adjust RV304 for suitable colour intensity.

CHROMA LEVEL

1. Receive a PAL colour-bar signal from the colour-bar/pattern generator. (TECTRONIX 141).
2. Set ACC switch to OFF.
3. Connect an oscilloscope (E) to the emitter of Q304.
4. Note the level of chrome signal.
5. Set ACC switch to ON.
6. Adjust RV455 so that the level of chroma signal is equal to that of step 4.

R-Y DISCRI

1. Feed in a SECAM colour-bar signal.
2. Connect an oscilloscope (B) to the emitter of Q310.
3. Adjust T307 to obtain a correct waveform as shown.

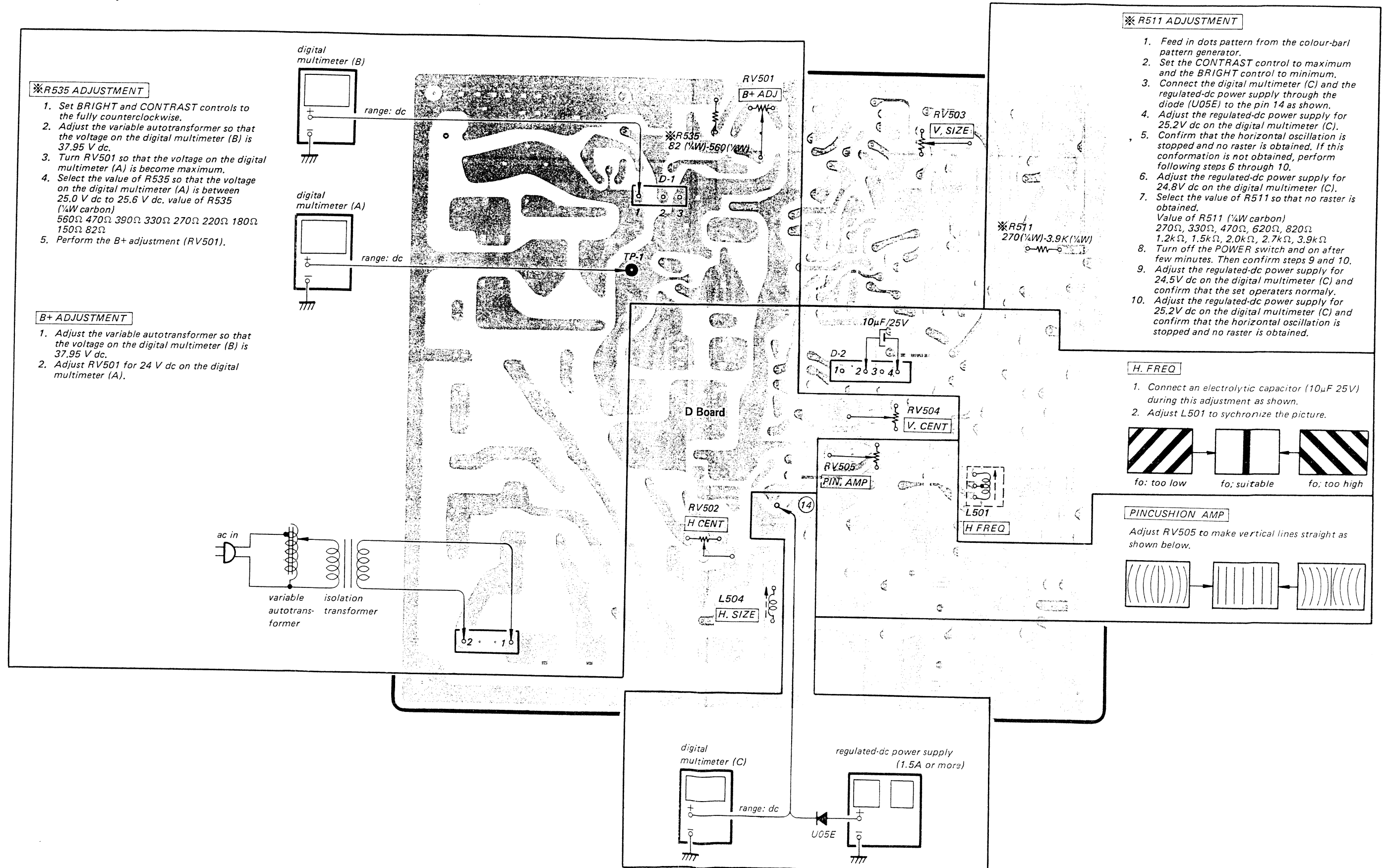
B-Y DISCRI

1. Feed in a SECAM colour-bar signal.
2. Connect an oscilloscope (A) to the emitter of Q309.
3. Adjust T306 to obtain a correct waveform as shown.

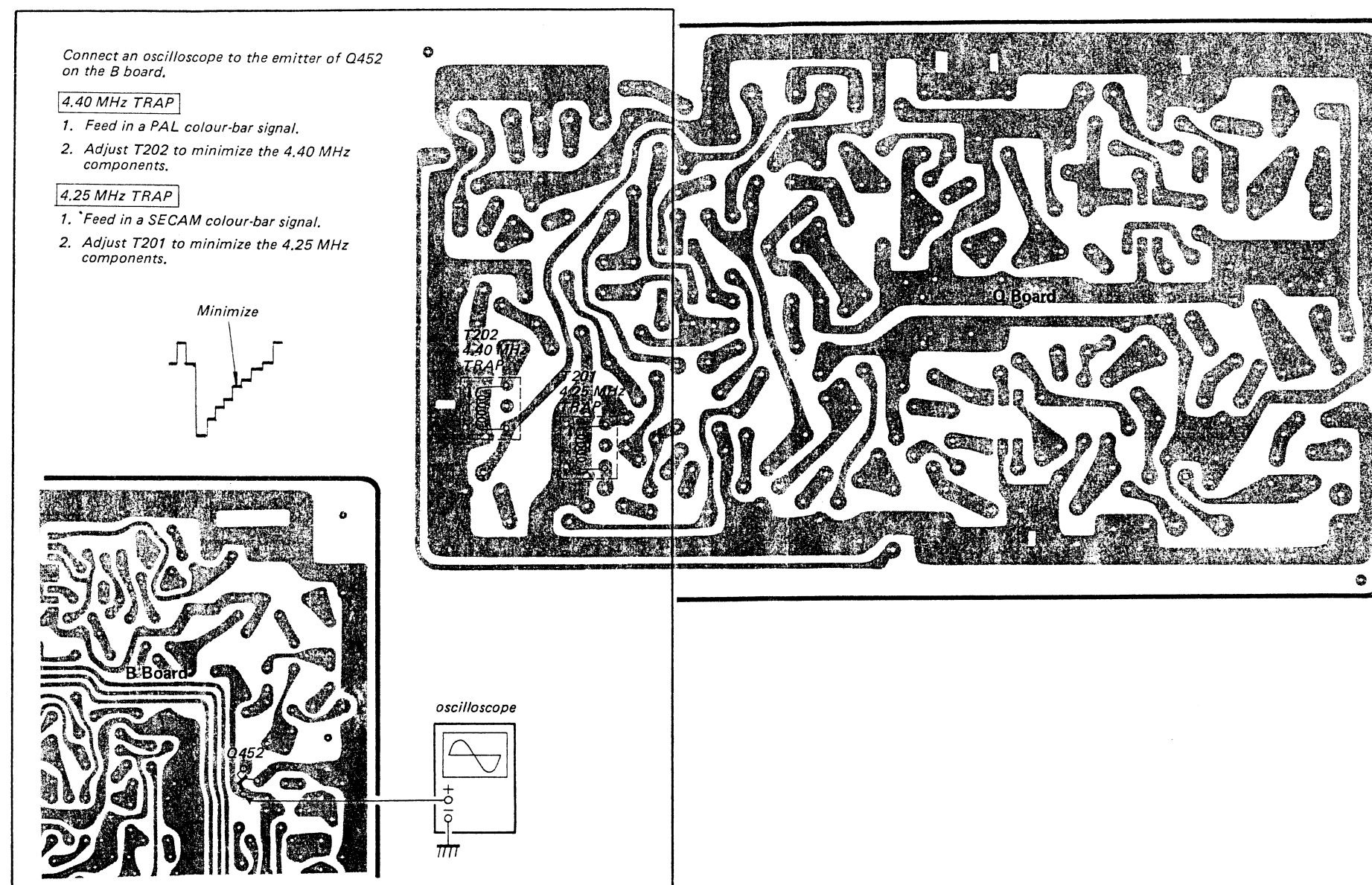
BELL FILTER

1. Feed in a SECAM colour-bar signal.
2. Connect an oscilloscope (A) to the emitter of Q309.
3. Adjust T305 to obtain a correct waveform as shown.

4-2. D Board Adjustment



4-3. Q Board Adjustment

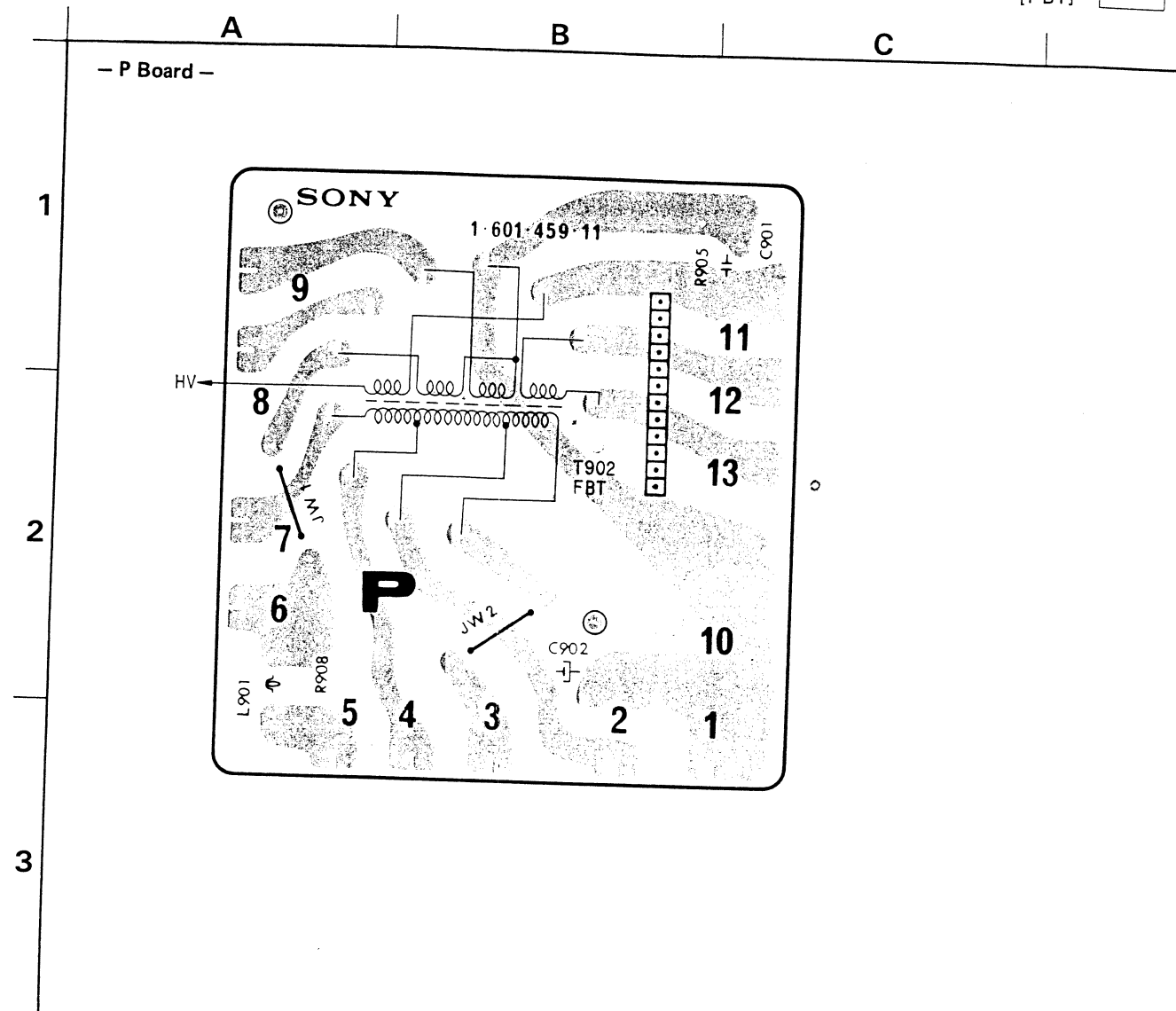


SECTION 5 DIAGRAMS

5-1. MOUNTING DIAGRAM — Conductor Side —

[FBT]

P

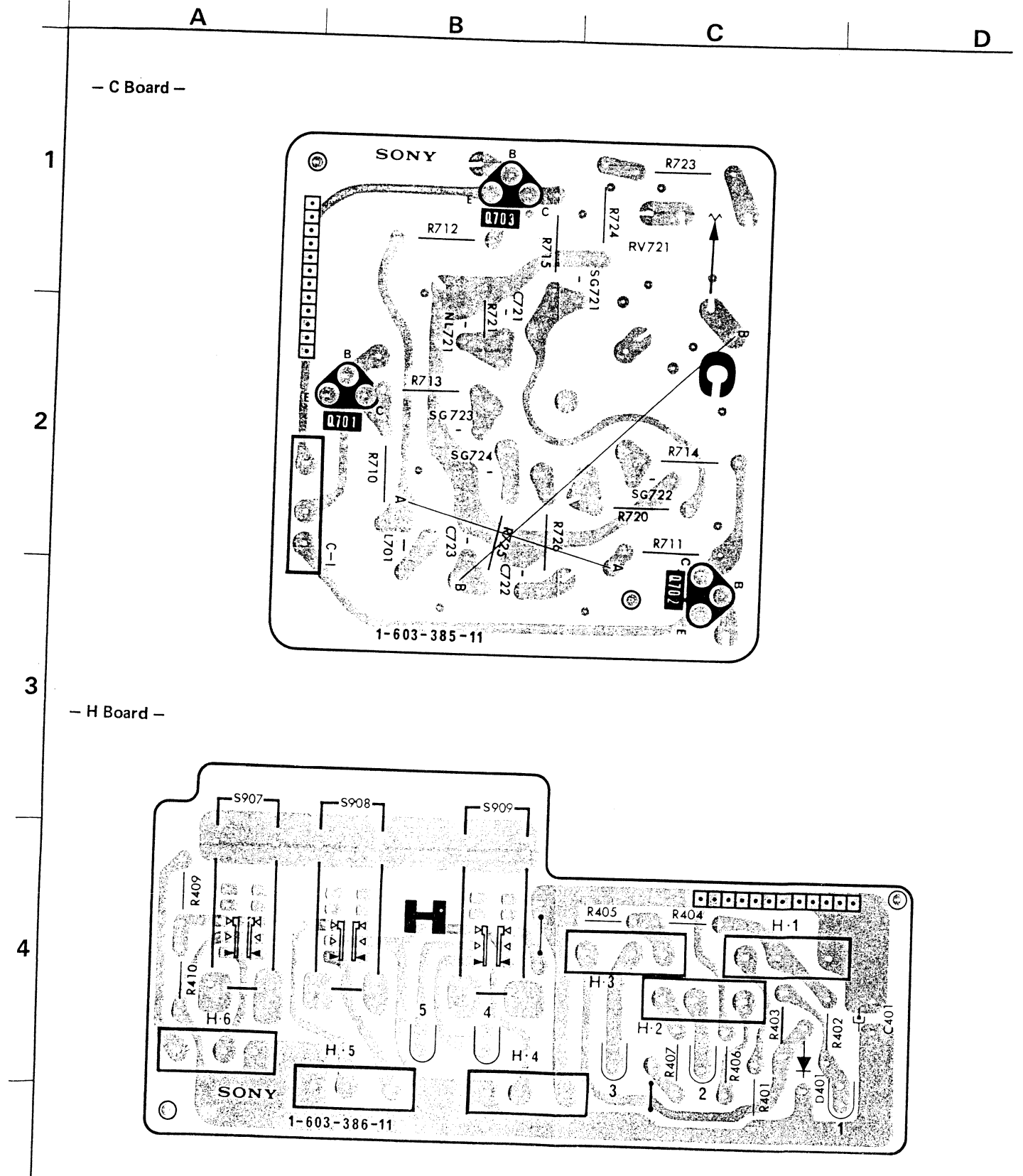


C

[R, G, B, OUT]

H

[CUSTOMER CONTROL]



[Y AMP, DRIVE, SYNC
PAL CHROMA SW]

Q

Q

A

B

C

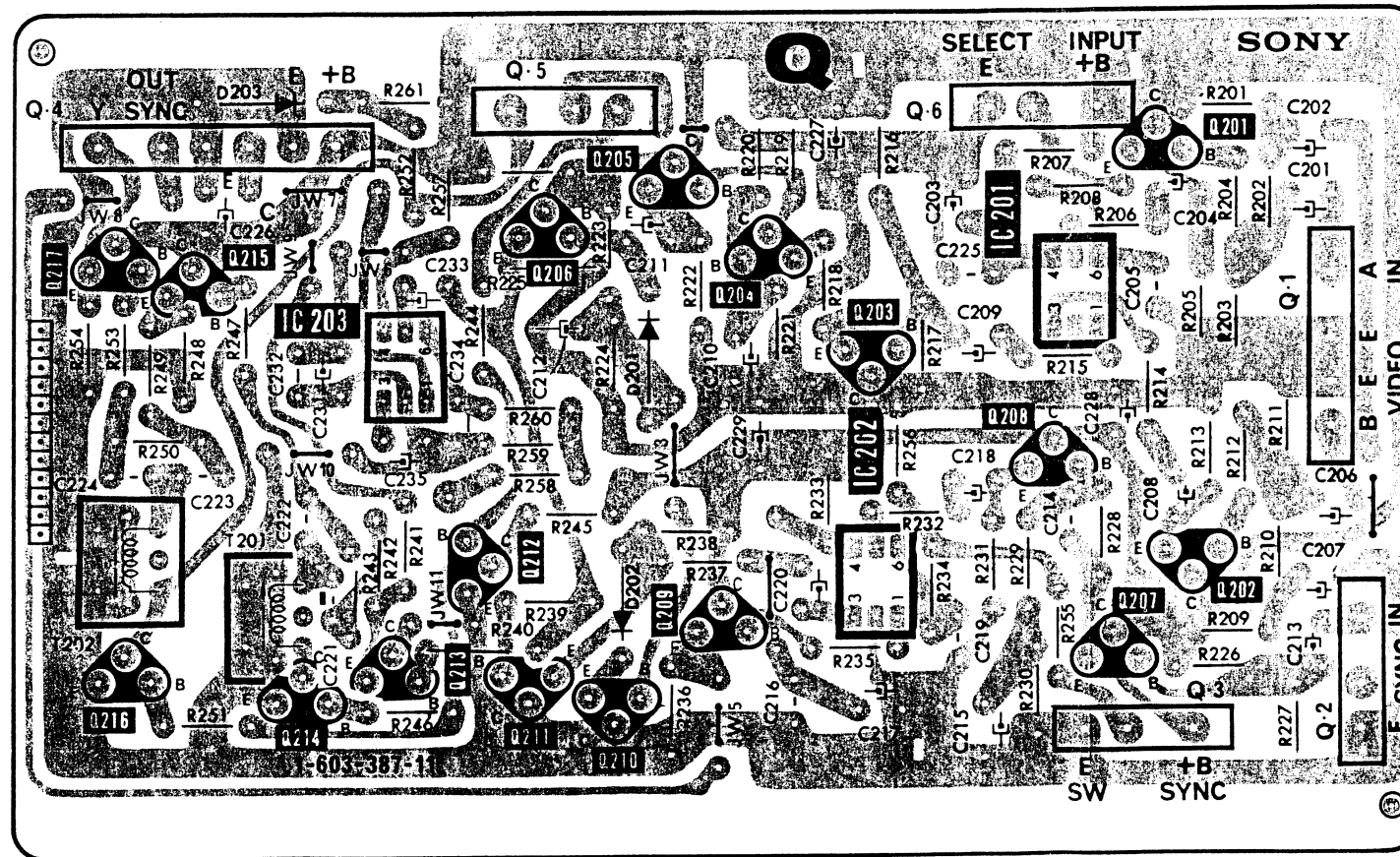
D

E

F

— Q Board —

Q IC	217 216	215		IC203 213	212	206 211	210	205 209	204	203 IC202	IC201 208	201 207	202	Q IC
D			203					201 202						D
ADJ		T202	T201											ADJ

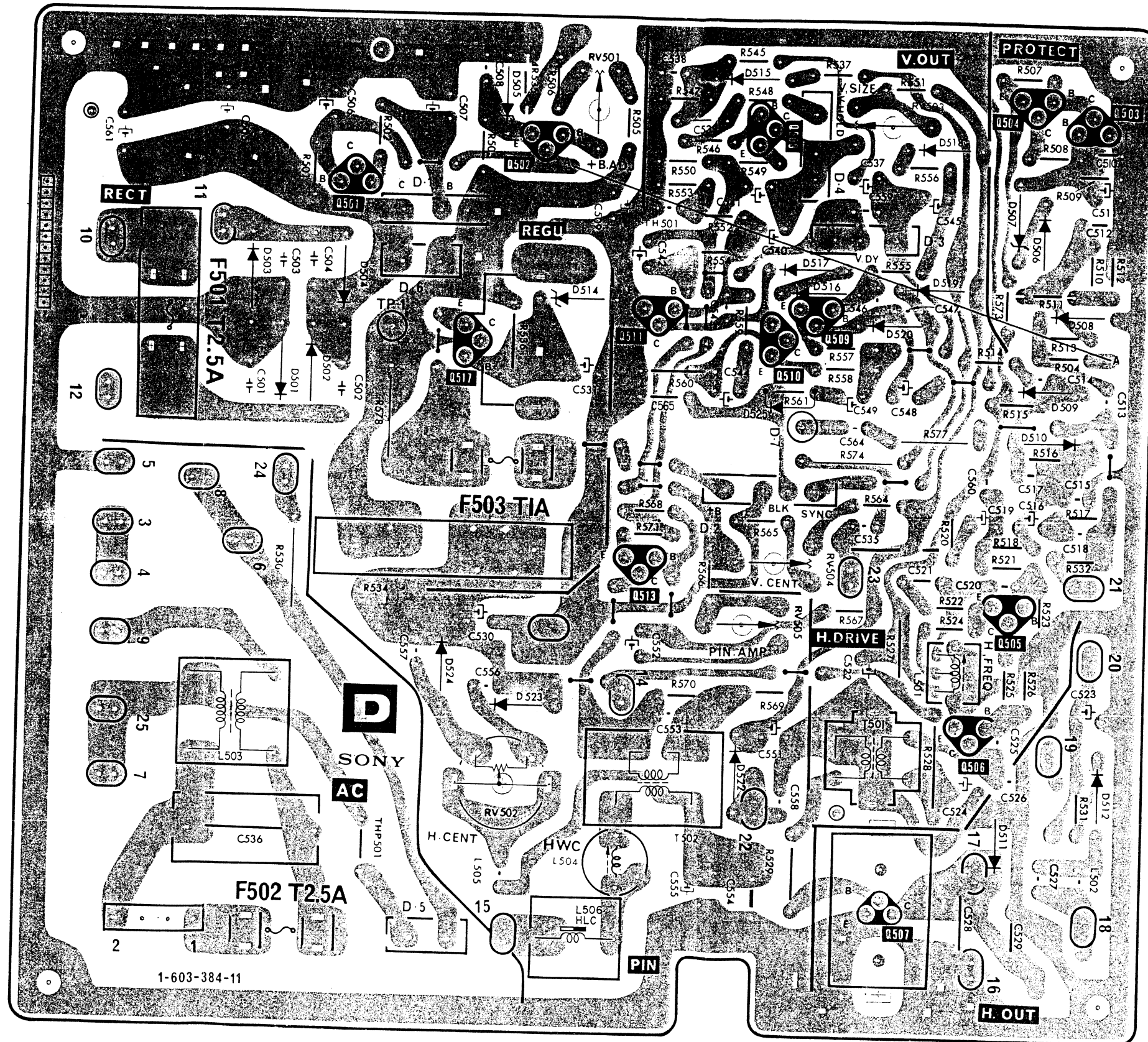


[REG, H, V, DEF, PROTECT]

D

D

- D Board -



1-603-384-11

Q, IC	D	ADJ
504	515	R535
503	505	RV501
508	518	RV503
502		
501	507	
	506	
	517	
	503	
	504	
	514, 519	
	516, 508	
	520	
509		
511		
517	510	
	501	
	502	
	509	
	525	
	510	
513		RV504
505		RV505
		L501
524		
523		
506		
522		
512		RV502
511		
		L504
507		
Q, IC	D	ADJ

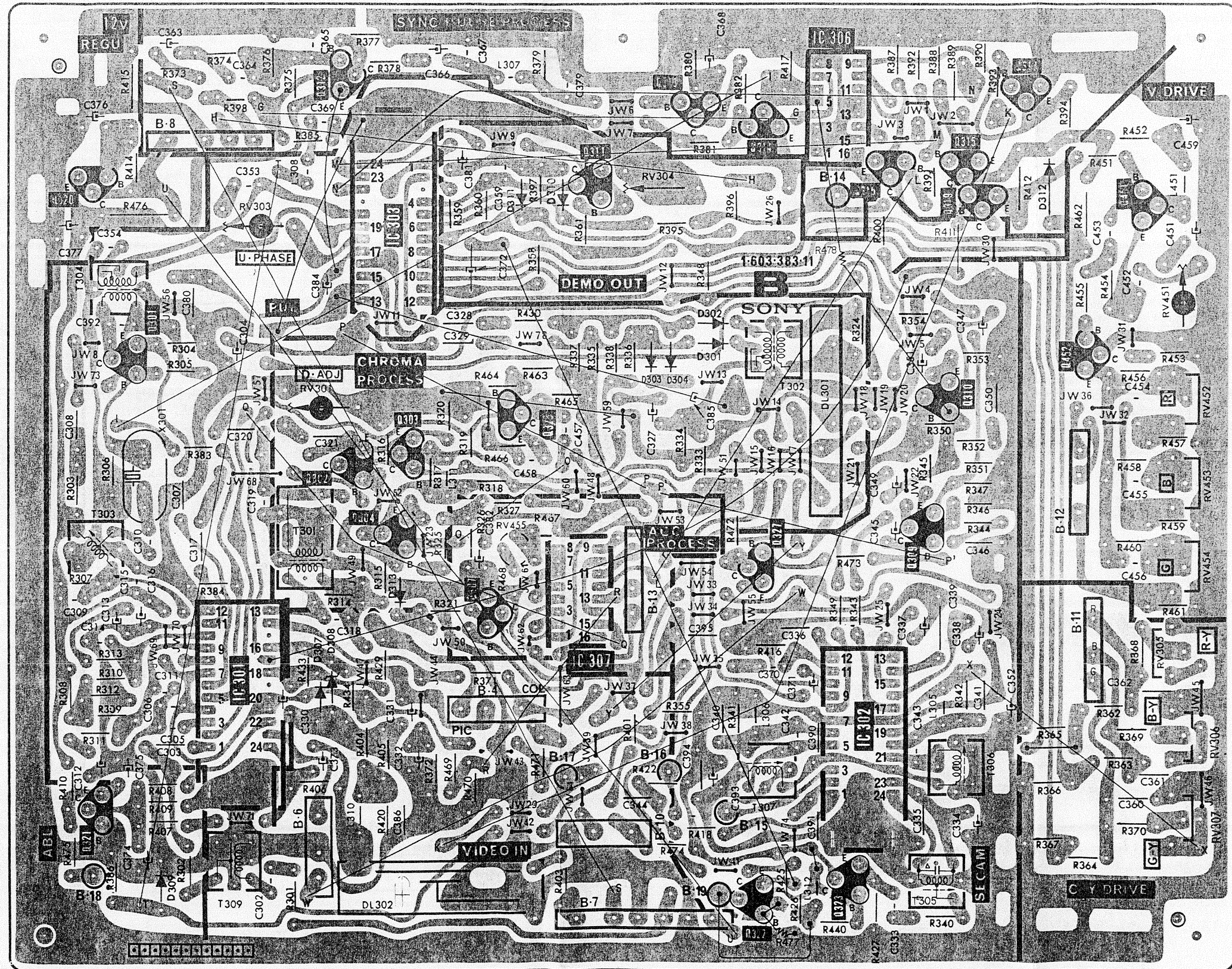
B

B

[CHROMA, Y AMP,
ACC, MATRIX]

- B Board -

Q, IC	D	ADJ
312		
317		
313		
314		
IC306		
316,315	312	RV304
320 311	311,310	
319,451		RV303
IC303		
		T304
		RV451
	302	
301 452	301	T302
	303,304	
310		RV452
326		RV301
303		
302		RV453
309		
304		T303
327		RV454
IC307	313	
307		RV305
IC301	308	
	307	
IC302		RV306
321		T306
		T307
		RV307
323	309	
322		T305
Q, IC	D	ADJ

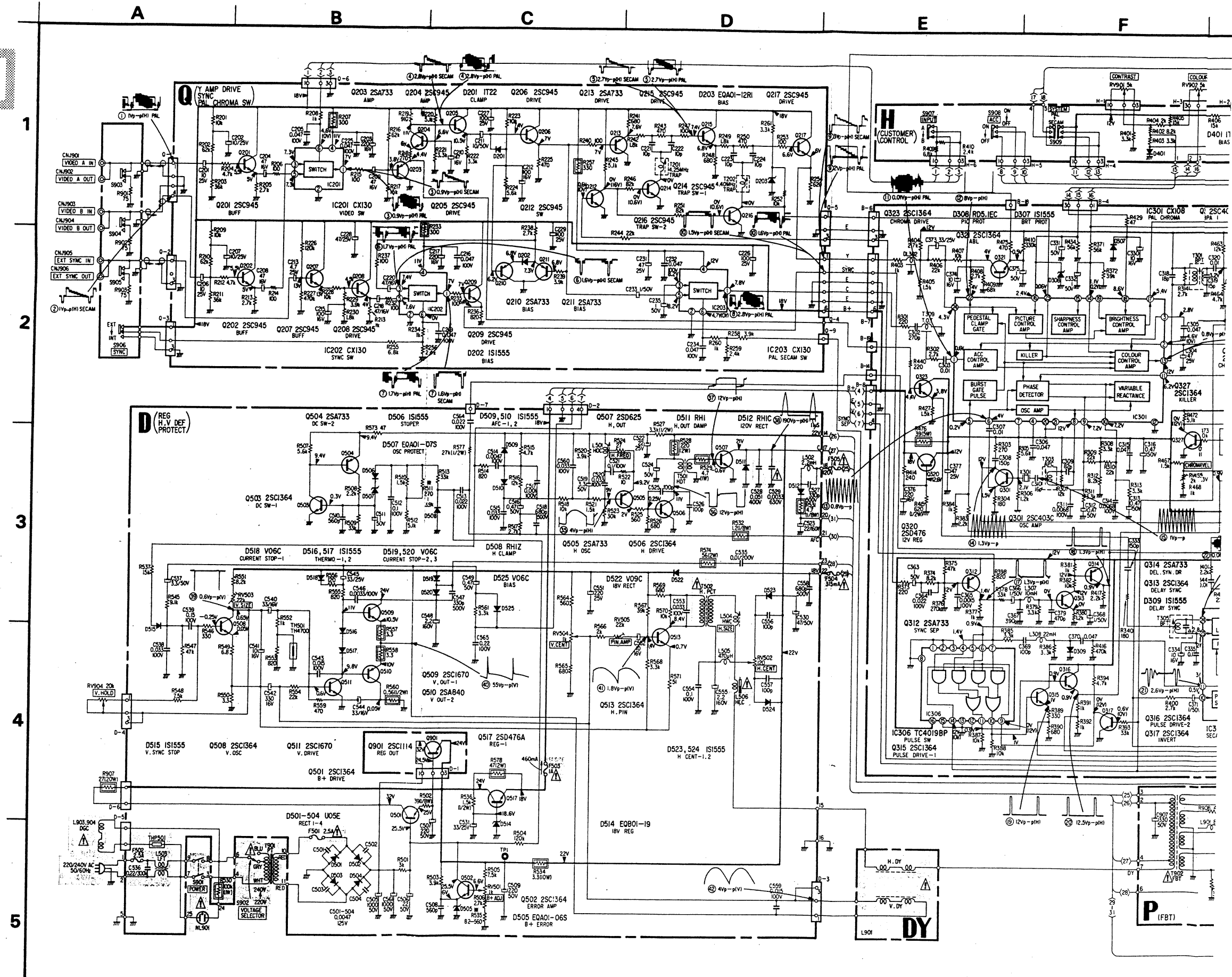


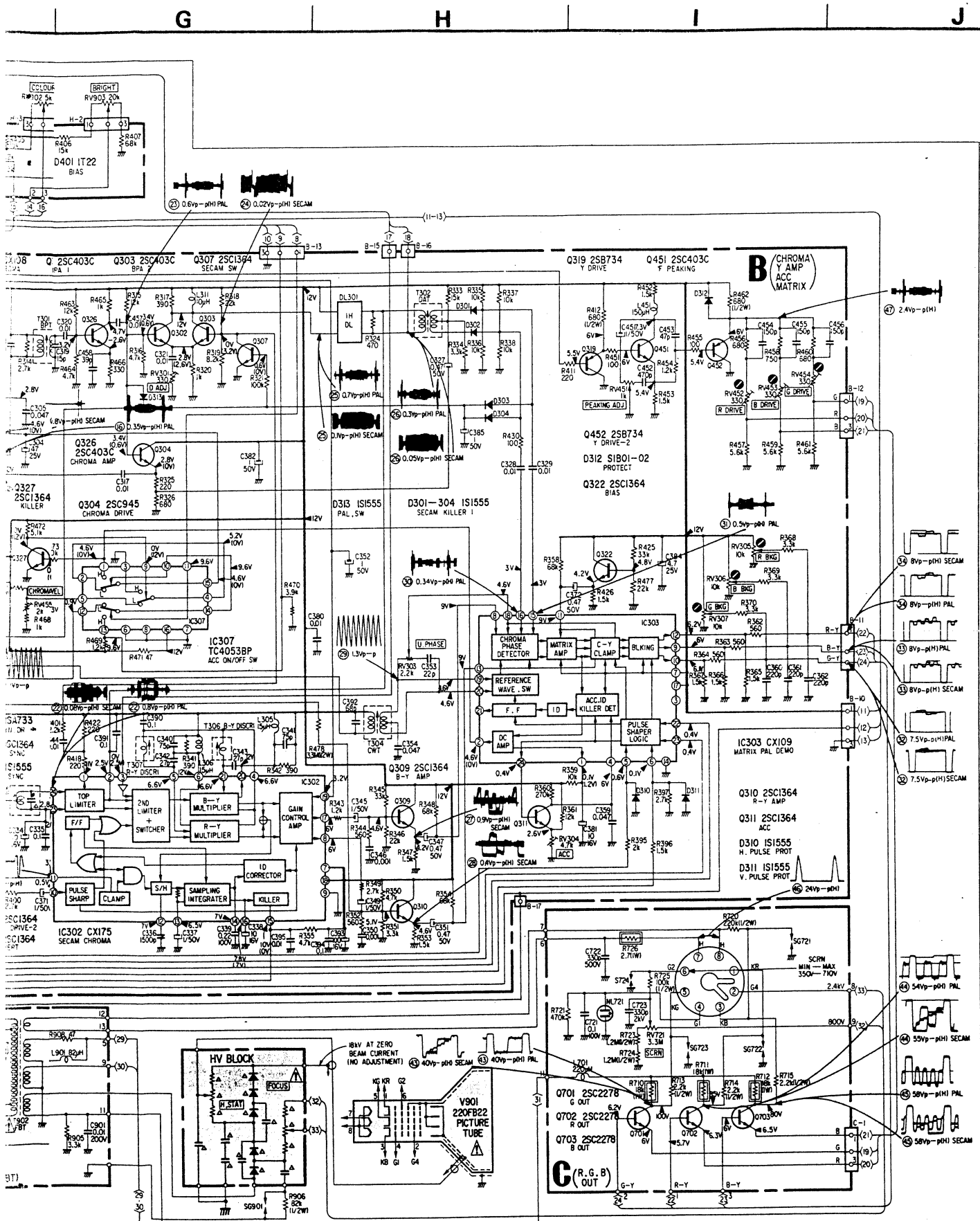
5-2. SCHEMATIC DIAGRAM

Note: The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

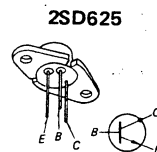
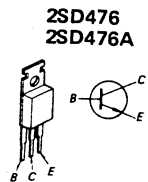
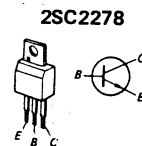
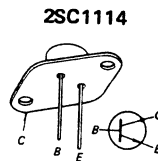
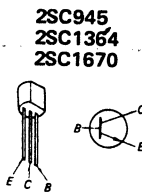
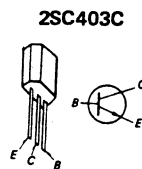
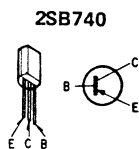
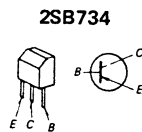
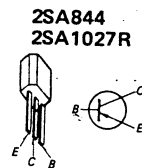
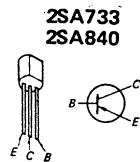
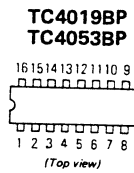
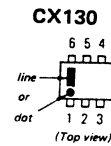
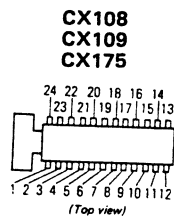
Note:

- All capacitors are in μF unless otherwise noted. pF : μF 50 WV or less are not indicated except for electrolytics.
- All resistors are in ohms, $\frac{1}{4}\text{W}$ unless otherwise noted. k Ω : 1000 Ω ; M Ω : 1000 k Ω
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- \square : nonflammable resistor.
- \square : panel designation.
- Δ : internal component.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken with a 20,000-ohm-per-volt VOM.
- Voltage variations may be noted due to normal production tolerances.
- \square : adjustment for repair.
- \odot : adjustable without removing cabinet.
- $*$: selected to yield optimum performance.
- Voltages and waveforms are taken when PAL colour-bar signal is input VIDEO A IN or SECAM colour-bar signal is input VIDEO B IN and when INPUT switch is chosen A or B.
- In voltage
 - V: These voltages are with A (Reading are taken with a PAL colour-bar signal input) or common.
 - (V): These voltages are with B (Reading are taken with a SECAM colour-bar signal input).
- Waveforms not to indicate PAL or SECAM are common.





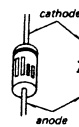
Semiconductors



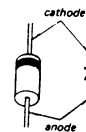
**1S1555
1T22
1T22AM
10E2
RD5.1EC**



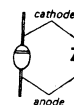
**EQA01-06S
EQA01-07S
EQA01-12R1
EQB01-06
EQB01-07
EQB01-19
EQB01-19Z
EQB01-12Z
SIB01-02**

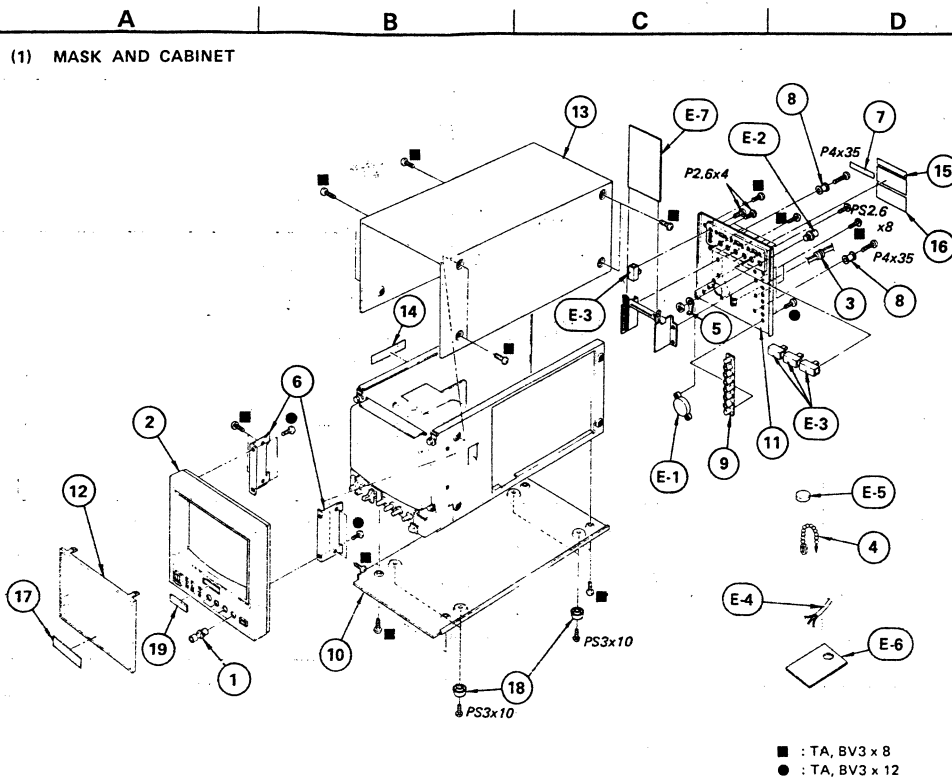


**RH1
RH1A
RH1C
RH1Z**



**U05E
U05G
V06C
V09C
V09G**



SECTION 6
EXPLODED VIEWS

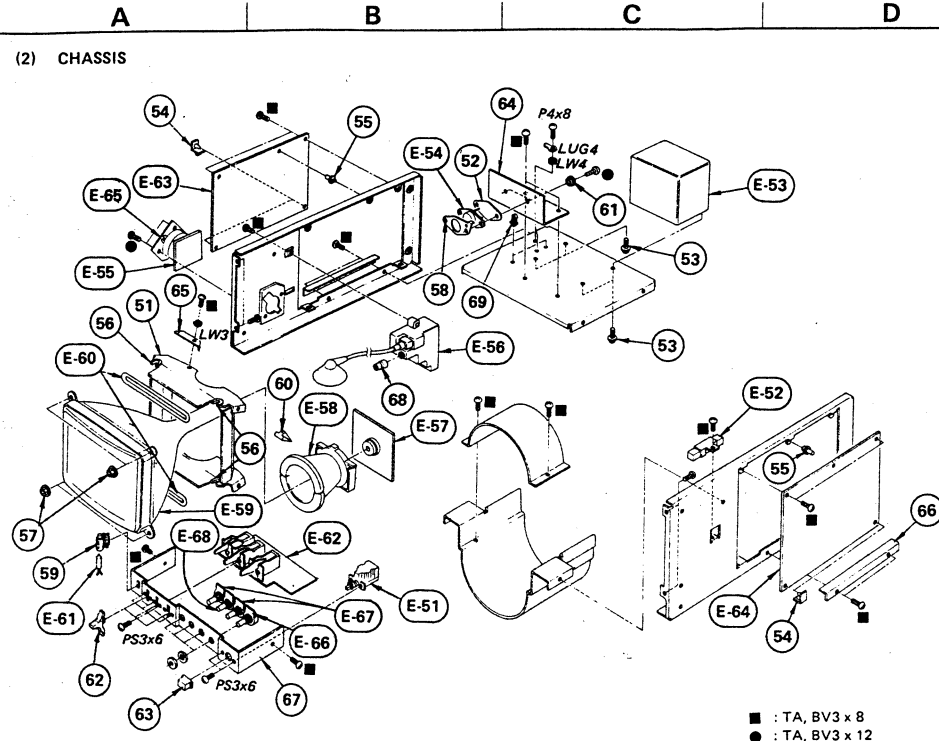
No.	Part No	Description	Remark	No.	Part No	Description	Remark
1	X-4316-209-0	KNOB ASSY, CONTROL		11	4-340-254-00	COVER, BACK	
2	X-4340-203-0	BEZEL ASSY		12	4-340-221-00	FILTER	
3	2-045-063-00	STOPPER, CORD		13	4-340-226-00	COVER (UPPER)	
4	4-308-870-00	CLIP, LEAD WIRE		14	3-703-058-00	LABEL, PTB EXEMPTION	
5	4-325-529-00	TERMINAL, CONNECTOR		15	3-703-057-00	LABEL, PTB EXEMPTION	
6	4-340-202-00	BRACKET, BEZEL		16	4-340-256-00	LABEL, MODEL NUMBER (LARGE)	
7	4-310-380-00	LABEL, DEMKO		17	3-701-690-00	LABEL	
8	4-340-206-00	WINDING, CORD		18	X-4861-312-0	FOOT ASSY, HF	
9	4-340-214-00	INSULATOR, CONTROL		19	4-836-828-11	EMBLEM, SONY	
10	4-340-219-00	COVER (LOWER)					

NOTE:

• Items with no part number and no description are not stocked because they are seldom required for routine service.
• The construction parts of an assembled part are indicated with a collation number in the remark column.

• As to the part numbered with E-, refer to the electrical parts list.
• Items marked "▲" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.



SECTION 7

ELECTRICAL PARTS LIST

B

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
	▲A-1135-107-A	B BOARD, COMPLETE	E-64	C340	1-161-345-00	CERAMIC 75PF	5% 50V
		CONNECTOR		C341	1-161-345-00	CERAMIC 75PF	5% 50V
B4	▲:1-508-765-00	3P PLUG (M)		C342	1-102-883-00	CERAMIC 27PF	5% 50V
B6	▲:1-508-765-00	3P PLUG (M)		C343	1-102-883-00	CERAMIC 27PF	5% 50V
B7	▲:1-508-768-00	6P PLUG		C344	1-161-379-00	CERAMIC 0.01MF	20% 25V
B8	▲:1-508-766-00	4P PLUG (M)		C345	1-123-352-00	ELECT 1MF	20% 50V
B10	▲:1-508-765-00	3P PLUG (M)		C346	1-161-323-00	CERAMIC 0.001MF	10% 50V
				C347	1-123-351-00	ELECT 0.47MF	20% 50V
B11	▲:1-508-765-00	3P PLUG (M)		C349	1-123-352-00	ELECT 1MF	20% 50V
B12	▲:1-508-765-00	3P PLUG (M)		C350	1-161-323-00	CERAMIC 0.001MF	10% 50V
B13	▲:1-508-765-00	3P PLUG (M)		C351	1-123-351-00	ELECT 0.47MF	20% 50V
B14	▲:1-508-784-00	1P PLUG		C352	1-123-352-00	ELECT 1MF	20% 50V
B15	▲:1-508-784-00	1P PLUG		C353	1-102-892-00	CERAMIC 22PF	5% 50V
B16	▲:1-508-784-00	1P PLUG		C354	1-101-006-00	CERAMIC 0.047MF	50V
B17	▲:1-508-784-00	1P PLUG		C359	1-101-006-00	CERAMIC 0.047MF	50V
B18	▲:1-508-784-00	1P PLUG					
B19	▲:1-508-784-00	1P PLUG		C360	1-161-315-00	CERAMIC 220PF	10% 50V
		CAPACITOR		C361	1-161-315-00	CERAMIC 220PF	10% 50V
C302	1-102-980-00	CERAMIC 270PF	5% 50V	C362	1-161-315-00	CERAMIC 220PF	10% 50V
C303	1-161-379-00	CERAMIC 0.01MF	20% 25V	C363	1-123-352-00	ELECT 1MF	20% 50V
C304	1-123-332-00	ELECT 47MF	20% 25V	C364	1-108-630-11	MYLAR 0.022MF	10% 100V
C305	1-101-006-00	CERAMIC 0.047MF	50V	C365	1-108-616-11	MYLAR 0.0015MF	10% 100V
C306	1-101-006-00	CERAMIC 0.047MF	50V	C366	1-123-352-00	ELECT 1MF	20% 50V
C307	1-161-379-00	CERAMIC 0.01MF	20% 25V	C367	1-161-318-00	CERAMIC 390PF	10% 50V
C308	1-161-313-00	CERAMIC 150PF	10% 50V	C368	1-123-352-00	ELECT 1MF	20% 50V
C309	1-102-700-00	CERAMIC 82PF	5% 50V	C369	1-161-271-00	CERAMIC 100PF	5% 50V
C310	1-102-512-00	CERAMIC 16PF	5% 50V	C370	1-101-006-00	CERAMIC 0.047MF	50V
C311	1-108-624-00	MYLAR 0.0068MF	10% 100V	C371	1-123-352-00	ELECT 1MF	20% 50V
C312	1-123-351-00	ELECT 0.47MF	20% 50V	C372	1-123-351-11	ELECT 0.47MF	20% 50V
C313	1-123-351-00	ELECT 0.47MF	20% 50V	C373	1-123-331-00	ELECT 33MF	20% 25V
C314	1-108-624-00	MYLAR 0.0068MF	10% 100V	C374	1-123-316-00	ELECT 10MF	20% 16V
C315	1-101-006-00	CERAMIC 0.047MF	50V	C375	1-123-352-00	ELECT 1MF	20% 50V
C316	1-123-351-00	ELECT 0.47MF	20% 50V	C376	1-123-321-00	ELECT 220MF	20% 16V
C317	1-161-379-00	CERAMIC 0.01MF	20% 25V	C377	1-123-332-00	ELECT 47MF	20% 25V
C318	1-102-670-00	CERAMIC 18PF	5% 50V	C379	1-161-319-00	CERAMIC 470PF	10% 50V
C319	1-102-668-00	CERAMIC 15PF	5% 50V	C380	1-161-379-00	CERAMIC 0.01MF	20% 25V
C320	1-161-379-00	CERAMIC 0.01MF	20% 25V	C381	1-123-316-00	ELECT 10MF	20% 16V
C321	1-161-379-00	CERAMIC 0.01MF	20% 25V	C382	1-123-352-00	ELECT 1MF	20% 50V
C327	1-123-351-00	ELECT 0.47MF	20% 50V	C384	1-123-328-00	ELECT 4.7MF	20% 25V
C328	1-161-379-00	CERAMIC 0.01MF	20% 25V	C385	1-123-352-11	ELECT 1MF	20% 50V
C329	1-161-379-00	CERAMIC 0.01MF	20% 25V	C390	1-161-025-00	CERAMIC 0.1MF	10% 25V
C330	1-123-316-00	ELECT 10MF	20% 16V	C391	1-161-025-00	CERAMIC 0.1MF	10% 25V
C331	1-123-352-00	ELECT 1MF	20% 50V	C392	1-102-676-00	CERAMIC 68PF	5% 50V
C332	1-123-352-00	ELECT 1MF	20% 50V	C393	1-123-320-00	ELECT 100MF	20% 16V
C333	1-102-888-00	CERAMIC 150PF	5% 50V	C394	1-161-025-00	CERAMIC 0.1MF	10% 25V
C334	1-123-316-00	ELECT 10MF	20% 16V	C395	1-161-379-00	CERAMIC 0.01MF	20% 25V
C335	1-161-025-51	CERAMIC 0.1MF	10% 25V	C451	1-123-352-00	ELECT 1MF	20% 50V
C336	1-161-325-51	CERAMIC 0.0015MF	30% 50V	C452	1-161-319-00	CERAMIC 470PF	10% 50V
C337	1-123-352-00	ELECT 1MF	20% 50V	C453	1-101-880-00	CERAMIC 47PF	5% 50V
C338	1-123-316-00	ELECT 10MF	20% 16V	C454	1-101-361-00	CERAMIC 150PF	5% 50V
C339	1-108-642-11	MYLAR 0.22MF	10% 100V	C455	1-101-361-00	CERAMIC 150PF	5% 50V
				C456	1-101-361-00	CERAMIC 150PF	5% 50V
				C457	1-108-626-11	MYLAR 0.01MF	10% 100V

NOTE:

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• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS
• MF : μ F, PF : μ F

RESISTORS
• All resistors are in ohms
• F : nonflammable

COILS
• MMH : mH, μ H : μ H

B

Ref.No	Part No	Description	Remark
C458	1-102-965-00	CERAMIC 39PF	5% 50V
C459	1-123-352-00	ELECT 1M	20% 50V
DIODE			
D301	8-719-815-55	DIODE 1S1555	
D302	8-719-815-55	DIODE 1S1555	
D303	8-719-815-55	DIODE 1S1555	
D304	8-719-815-55	DIODE 1S1555	
D307	8-719-815-55	DIODE 1S1555	
DELAY LINE			
DL301	1-415-122-31	DELAY LINE	
DL302	1-415-100-00	DELAY LINE	
IC			
IC301	8-751-080-00	IC CX108	
IC302	8-751-750-00	IC CX175	
IC303	8-751-090-00	IC CX109	
IC306	8-759-240-19	IC TC4019BP	
IC307	8-759-240-53	IC TC4053BP	
COIL			
L305	1-407-695-11	MICRO INDUCTOR 15UH	
L306	1-407-695-11	MICRO INDUCTOR 15UH	
L307	1-407-206-XX	MICRO INDUCTOR 10MMH	
L308	1-407-210-XX	MICRO INDUCTOR 22MMH	
L311	1-407-693-11	MICRO INDUCTOR 10UH	
L451	1-407-707-11	MICRO INDUCTOR 150UH	
TRANSISTOR			
Q301	8-724-375-01	TRANSISTOR 2SC403C	
Q302	8-724-375-01	TRANSISTOR 2SC403C	
Q303	8-724-375-01	TRANSISTOR 2SC403C	
Q304	8-729-663-47	TRANSISTOR 2SC1364	
Q307	8-729-663-47	TRANSISTOR 2SC1364	
Q309	8-729-663-47	TRANSISTOR 2SC1364	
Q310	8-729-663-47	TRANSISTOR 2SC1364	
Q311	8-729-663-47	TRANSISTOR 2SC1364	
Q312	8-729-612-77	TRANSISTOR 2SA1027R	
Q313	8-729-663-47	TRANSISTOR 2SC1364	
Q314	8-729-612-77	TRANSISTOR 2SA1027R	
Q315	8-729-663-47	TRANSISTOR 2SC1364	
Q316	8-729-663-47	TRANSISTOR 2SC1364	
Q317	8-729-663-47	TRANSISTOR 2SC1364	
Q319	8-729-374-02	TRANSISTOR 2SB740	
Q320	8-729-307-62	TRANSISTOR 2SD476-A	

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CAPACITORS
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RESISTORS
All resistors are in ohms
F : nonflammable

COILS
MMH : mH, UH : μ H

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B

Ref.No	Part No	Description	Remark
R354	1-246-517-00	CARBON 68K 5% 1/4W	
R355	1-246-489-00	CARBON 4.7K 5% 1/4W	
R356	1-246-517-00	CARBON 68K 5% 1/4W	
R358	1-246-497-00	CARBON 10K 5% 1/4W	
R359	1-246-531-00	CARBON 270K 5% 1/4W	
R361	1-246-499-00	CARBON 12K 5% 1/4W	
R362	1-246-467-00	CARBON 560 5% 1/4W	
R363	1-246-467-00	CARBON 560 5% 1/4W	
R364	1-246-467-00	CARBON 560 5% 1/4W	
R365	1-246-477-00	CARBON 1.5K 5% 1/4W	
R366	1-246-477-00	CARBON 1.5K 5% 1/4W	
R367	1-246-477-00	CARBON 1.5K 5% 1/4W	
R368	1-246-485-00	CARBON 3.3K 5% 1/4W	
R369	1-246-485-00	CARBON 3.3K 5% 1/4W	
R370	1-246-485-00	CARBON 3.3K 5% 1/4W	
R371	1-246-515-00	CARBON 56K 5% 1/4W	
R372	1-246-511-25	CARBON 39K 5% 1/4W	
R373	1-246-457-00	CARBON 220 5% 1/4W	
R374	1-246-495-00	CARBON 8.2K 5% 1/4W	
R375	1-246-513-00	CARBON 47K 5% 1/4W	
R376	1-246-531-00	CARBON 270K 5% 1/4W	
R377	1-246-473-00	CARBON 1K 5% 1/4W	
R378	1-246-509-00	CARBON 33K 5% 1/4W	
R379	1-246-485-00	CARBON 3.3K 5% 1/4W	
R380	1-246-475-00	CARBON 1.2K 5% 1/4W	
R381	1-246-473-00	CARBON 1K 5% 1/4W	
R382	1-246-497-00	CARBON 10K 5% 1/4W	
R383	1-246-481-00	CARBON 2.2K 5% 1/4W	
R384	1-246-473-00	CARBON 1K 5% 1/4W	
R385	1-246-485-00	CARBON 3.3K 5% 1/4W	
R386	1-246-485-00	CARBON 3.3K 5% 1/4W	
R387	1-246-497-00	CARBON 10K 5% 1/4W	
R388	1-246-497-00	CARBON 10K 5% 1/4W	
R389	1-246-461-00	CARBON 330 5% 1/4W	
R390	1-246-469-00	CARBON 680 5% 1/4W	
R391	1-246-473-00	CARBON 1K 5% 1/4W	
R392	1-246-473-00	CARBON 1K 5% 1/4W	
R393	1-246-509-00	CARBON 33K 5% 1/4W	
R394	1-246-489-00	CARBON 4.7K 5% 1/4W	
R395	1-246-480-00	CARBON 2K 5% 1/4W	
R396	1-246-477-00	CARBON 1.5K 5% 1/4W	
R397	1-246-483-00	CARBON 2.7K 5% 1/4W	
R398	1-246-471-00	CARBON 820 5% 1/4W	
R400	1-246-483-00	CARBON 2.7K 5% 1/4W	
R401	1-246-481-00	CARBON 2.2K 5% 1/4W	
R403	1-246-473-00	CARBON 1K 5% 1/4W	
R404	1-246-483-00	CARBON 2.7K 5% 1/4W	
R405	1-246-477-00	CARBON 1.5K 5% 1/4W	
R406	1-246-505-00	CARBON 22K 5% 1/4W	
R407	1-246-497-00	CARBON 10K 5% 1/4W	
R408	1-246-483-00	CARBON 2.7K 5% 1/4W	
R409	1-246-517-00	CARBON 68K 5% 1/4W	
R410	1-202-443-15	COMPOSITION 330K 5% 1/4W	
R411	1-246-457-00	CARBON 220 5% 1/4W	
R412	1-244-869-00	CARBON 680 5% 1/2W	
R414	1-246-458-00	CARBON 240 5% 1/4W	
R415	1-244-868-11	CARBON 620 5% 1/2W	
R416	1-246-537-00	CARBON 470K 5% 1/4W	
R417	1-246-481-00	CARBON 2.2K 5% 1/4W	
R418	1-246-457-00	CARBON 220 5% 1/4W	
R422	1-246-457-00	CARBON 220 5% 1/4W	
R425	1-246-509-00	CARBON 33K 5% 1/4W	
R426	1-246-477-00	CARBON 1.5K 5% 1/4W	
R427	1-246-477-00	CARBON 1.5K 5% 1/4W	
R429	1-246-441-00	CARBON 47 5% 1/4W	
R430	1-246-449-00	CARBON 100 5% 1/4W	
R434	1-246-515-00	CARBON 56K 5% 1/4W	
R440	1-246-457-00	CARBON 220 5% 1/4W	
R451	1-246-449-00	CARBON 100 5% 1/4W	
R452	1-246-477-00	CARBON 1.5K 5% 1/4W	
R453	1-246-477-00	CARBON 1.5K 5% 1/4W	
R454	1-246-475-00	CARBON 1.2K 5% 1/4W	
R455	1-246-449-00	CARBON 100 5% 1/4W	
R456	1-246-469-00	CARBON 680 5% 1/4W	
R457	1-246-491-00	CARBON 5.6K 5% 1/4W	
R458	1-246-470-00	CARBON 750 5% 1/4W	
R459	1-246-491-00	CARBON 5.6K 5% 1/4W	
R460	1-246-469-00	CARBON 680 5% 1/4W	
R461	1-246-491-00	CARBON 5.6K 5% 1/4W	
R462	1-244-869-00	CARBON 680 5% 1/2W	
R463	1-246-499-00	CARBON 12K 5% 1/4W	
R464	1-246-489-00	CARBON 4.7K 5% 1/4W	
R465	1-246-473-00	CARBON 1K 5% 1/4W	
R466	1-246-461-00	CARBON 330 5% 1/4W	
R467	1-214-136-00	METAL 1.5K 1% 1/4W	
R468	1-214-132-00	METAL 1K 1% 1/4W	
R469	1-246-475-00	CARBON 1.2K 5% 1/4W	
R470	1-246-487-00	CARBON 3.9K 5% 1/4W	
R471	1-246-441-00	CARBON 47 5% 1/4W	
R472	1-246-490-00	CARBON 5.1K 5% 1/4W	
R473	1-246-497-00	CARBON 10K 5% 1/4W	
R475	1-246-465-00	CARBON 470 5% 1/4W	
R476	1-217-305-00	WIREWOUND 39 10% 5W F	
R477	1-246-505-15	CARBON 22K 5% 1/4W	
R478	1-202-657-11	COMPOSITION 3.3M	
VARIABLE RESISTOR			
RV301	1-222-515-31	RES, ADJ, CARBON 330	
RV303	1-222-785-31	RES, ADJ, CARBON 2.2K	
RV304	1-222-518-31	RES, ADJ, CARBON 4.7K	
RV305	1-226-100-00	RES, ADJ, CARBON 10K	
RV306	1-226-100-00	RES, ADJ, CARBON 10K	
RV307	1-226-100-00	RES, ADJ, CARBON 10K	
RV451	1-222-517-12	RES, ADJ, CARBON 1K	
RV452	1-224-964-00	RES, ADJ, CARBON 330	
RV453	1-224-964-00	RES, ADJ, CARBON 330	

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CAPACITORS
MF : μ F, PF : μ F

RESISTORS
All resistors are in ohms
F : nonflammable

COILS
MMH : mH, UH : μ H

B P Q

Q C

Ref.No	Part No	Description	Remark
RV454	1-224-964-00	RES, ADJ, CARBON 330	
RV455	1-224-938-00	RES, ADJ, METAL FILM 2K	
<u>TRANSFORMER</u>			
T301	1-425-927-00	TRANSFORMER, BANDPASS (BPT)	
T302	1-404-081-00	TRANSFORMER, DELAY ADJUST	
T303	1-405-733-00	COIL, OSCILLATOR, APC	
T304	1-425-928-00	TRANSFORMER, DELAY ADJUSTING	
T305	1-404-146-00	TRANSFORMER	
T306	1-407-573-00	COIL, VARIABLE 47MH	
T307	1-407-573-00	COIL, VARIABLE 47MH	
T309	1-425-784-00	TRANSFORMER, TAKE OFF (T.O.T)	
<u>CRYSTAL</u>			
X301	1-527-345-00	CRYSTAL, OSC	

♣:1-601-459-00 P BOARD E-55			
<u>CAPACITOR</u>			
C901	1-108-692-11	MYLAR 0.01MF	10% 200V
C907	1-123-362-00	ELECT 330MF	20% 50V
<u>COIL</u>			
L901	1-407-704-11	MICRO INDUCTOR 82UH	
<u>RESISTOR</u>			
R905	1-246-485-00	CARBON 3.3K	5% 1/4W
R908	1-246-441-00	CARBON 47	5% 1/4W
<u>TRANSFORMER</u>			
T902	♣:1-439-212-00	TRANSFORMER, FLYBACK	E-65

♣:A-1275-032-A Q BOARD, COMPLETE E-7			
<u>CAPACITOR</u>			
C201	1-123-329-00	ELECT 10MF	20% 25V
C202	1-123-329-00	ELECT 10MF	20% 25V
C203	1-123-321-00	ELECT 220MF	20% 16V
C204	1-123-319-00	ELECT 47MF	20% 16V
C205	1-108-634-11	MYLAR 0.047MF	10% 100V
C206	1-123-329-00	ELECT 10MF	20% 25V
C207	1-123-329-00	ELECT 10MF	20% 25V
C208	1-123-319-00	ELECT 47MF	20% 16V
C209	1-123-319-00	ELECT 47MF	20% 16V
C210	1-123-319-00	ELECT 47MF	20% 16V
C211	1-123-329-51	ELECT 10MF	20% 25V
C212	1-123-320-00	ELECT 100MF	20% 16V
C213	1-123-328-00	ELECT 4.7MF	20% 25V
C215	1-123-320-00	ELECT 100MF	20% 16V

Ref.No	Part No	Description	Remark
C216	1-108-634-11	MYLAR 0.047MF	10% 100V
C217	1-123-321-00	ELECT 220MF	20% 16V
C218	1-123-319-00	ELECT 47MF	20% 16V
C219	1-108-634-11	MYLAR 0.047MF	10% 100V
C220	1-123-319-00	ELECT 47MF	20% 16V
C221	1-102-947-00	CERAMIC 10PF	5% 50V
C222	1-102-947-00	CERAMIC 10PF	5% 50V
C223	1-102-947-00	CERAMIC 10PF	5% 50V
C224	1-102-947-00	CERAMIC 10PF	5% 50V
C225	1-108-634-11	MYLAR 0.047MF	10% 100V
C226	1-123-333-00	ELECT 100MF	20% 25V
C227	1-123-333-00	ELECT 100MF	20% 25V
C228	1-123-332-00	ELECT 47MF	20% 25V
C229	1-123-333-00	ELECT 100MF	20% 25V
C231	1-123-332-00	ELECT 47MF	20% 25V
C232	1-108-634-11	MYLAR 0.047MF	10% 100V
C233	1-123-352-00	ELECT 1MF	20% 50V
C234	1-108-634-11	MYLAR 0.047MF	10% 100V
C235	1-123-352-00	ELECT 1MF	20% 50V
<u>DIODE</u>			
D201	8-719-422-21	DIODE 1T22AM	
D202	8-719-815-55	DIODE 1S1555	
D203	♣:8-719-930-12	DIODE EQ801-12Z	
<u>IC</u>			
IC201	8-751-300-00	IC CX-130	
IC202	8-751-300-00	IC CX-130	
IC203	8-751-300-00	IC CX-130	
<u>CONNECTOR</u>			
Q1	♣:1-508-766-00	4P PLUG (M)	
Q2	♣:1-508-765-00	3P PLUG (M)	
Q3	♣:1-508-765-00	3P PLUG (M)	
Q4	♣:1-508-768-00	6P PLUG	
Q5	♣:1-508-765-00	3P PLUG (M)	
Q6	♣:1-508-765-00	3P PLUG (M)	
Q7	♣:1-508-784-00	1P PLUG	
Q8	♣:1-508-784-00	1P PLUG	
<u>TRANSISTOR</u>			
Q201	8-729-663-47	TRANSISTOR 25C1364	
Q202	8-729-663-47	TRANSISTOR 25C1364	
Q203	♣:8-729-612-77	TRANSISTOR 25A1027R	
Q204	8-729-663-47	TRANSISTOR 25C1364	
Q205	8-729-663-47	TRANSISTOR 25C1364	
Q206	8-729-663-47	TRANSISTOR 25C1364	
Q207	8-729-663-47	TRANSISTOR 25C1364	
Q208	8-729-663-47	TRANSISTOR 25C1364	
Q209	8-729-663-47	TRANSISTOR 25C1364	
Q210	♣:8-729-612-77	TRANSISTOR 25A1027R	
Q211	♣:8-729-612-77	TRANSISTOR 25A1027R	
Q212	8-729-663-47	TRANSISTOR 25C1364	

Ref.No	Part No	Description	Remark
Q213	♣:8-729-612-77	TRANSISTOR 25A1027R	
Q214	8-729-663-47	TRANSISTOR 25C1364	
Q215	8-729-663-47	TRANSISTOR 25C1364	
Q216	8-729-663-47	TRANSISTOR 25C1364	
Q217	8-729-663-47	TRANSISTOR 25C1364	
<u>RESISTOR</u>			
R201	1-246-497-00	CARBON 10K	5% 1/4W
R202	1-246-516-00	CARBON 62K	5% 1/4W
R203	1-246-510-00	CARBON 36K	5% 1/4W
R204	1-246-489-00	CARBON 4.7K	5% 1/4W
R205	1-246-483-00	CARBON 2.7K	5% 1/4W
R206	1-246-449-00	CARBON 100	5% 1/4W
R207	1-211-533-00	CARBON 300	5% 1/4W F
R208	1-246-473-00	CARBON 1K	5% 1/4W
R209	1-246-497-00	CARBON 10K	5% 1/4W
R210	1-246-516-00	CARBON 62K	5% 1/4W
R211	1-246-510-00	CARBON 36K	5% 1/4W
R212	1-246-489-00	CARBON 4.7K	5% 1/4W
R213	1-246-483-00	CARBON 2.7K	5% 1/4W
R214	1-246-449-00	CARBON 100	5% 1/4W
R215	1-246-449-00	CARBON 100	5% 1/4W
R216	1-246-516-00	CARBON 62K	5% 1/4W
R217	1-246-501-00	CARBON 15K	5% 1/4W
R218	1-246-459-00	CARBON 270	5% 1/4W
R219	1-246-472-00	CARBON 910	5% 1/4W
R220	1-246-490-00	CARBON 5.1K	5% 1/4W
R221	1-246-485-00	CARBON 3.3K	5% 1/4W
R222	1-246-485-00	CARBON 3.3K	5% 1/4W
R223	1-246-497-00	CARBON 10K	5% 1/4W
R224	1-246-491-00	CARBON 5.6K	5% 1/4W
R225	1-246-465-00	CARBON 470	5% 1/4W
R226	1-246-523-00	CARBON 120K	5% 1/4W
R227	1-246-537-00	CARBON 470K	5% 1/4W
R228	1-246-497-00	CARBON 10K	5% 1/4W
R229	1-246-487-00	CARBON 3.9K	5% 1/4W
R230	1-246-479-00	CARBON 1.8K	5% 1/4W
R231	1-246-473-00	CARBON 1K	5% 1/4W
R232	1-246-449-00	CARBON 100	5% 1/4W
R233	1-211-533-00	CARBON 300	5% 1/4W F
R234	1-246-473-00	CARBON 1K	5% 1/4W
R235	1-246-449-00	CARBON 100	5% 1/4W
R236	1-246-471-00	CARBON 820	5% 1/4W
R237	1-246-449-00	CARBON 100	5% 1/4W
R238	1-246-483-00	CARBON 2.7K	5% 1/4W
R239	1-246-487-00	CARBON 3.9K	5% 1/4W
R240	1-246-449-00	CARBON 100	5% 1/4W
R241	1-246-469-00	CARBON 680	5% 1/4W
R242	1-246-479-00	CARBON 1.8K	5% 1/4W
R243	1-246-465-00	CARBON 470	5% 1/4W
R244	1-246-505-00	CARBON 22K	5% 1/4W
R245	1-246-490-00	CARBON 5.1K	5% 1/4W
R246	1-246-519-00	CARBON 82K	5% 1/4W

Ref.No	Part No	Description	Remark
R247	1-246-449-00	CARBON 100	5% 1/4W
R248	1-246-469-00	CARBON 680	5% 1/4W
R249	1-246-479-00	CARBON 1.8K	5% 1/4W
R250	1-246-465-00	CARBON 470	5% 1/4W
R251	1-246-519-00	CARBON 82K	5% 1/4W
R252	1-246-497-00	CARBON 10K	5% 1/4W
R253	1-246-449-00	CARBON 100	5% 1/4W
R254	1-246-468-00	CARBON 620	5% 1/4W
R255	1-246-493-00	CARBON 6.8K	5% 1/4W
R256	1-246-482-00	CARBON 2.4K	5% 1/4W
R257	1-211-534-11	CARBON 330	5% 1/4W F
R258	1-246-487-00	CARBON 3.9K	5% 1/4W
R259	1-246-482-00	CARBON 2.4K	5% 1/4W
R260	1-246-473-00	CARBON 1K	5% 1/4W
R261	1-246-485-00	CARBON 3.3K	5% 1/4W
<u>TRANSFORMER</u>			
T201	1-409-193-00	COIL 3.58MHZ TRAP	
T202	1-409-193-00	COIL 3.58MHZ TRAP	

♣:A-1330-271-A C BOARD, COMPLETE E-57			
1-509-545-00 SOCKET, CRT MOLD			
♣:1-603-385-00 PC BOARD, C			
<u>CONNECTOR</u>			
B11	♣:1-509-839-82	CONNECTOR ASSY, 3P	
C1	♣:1-508-765-00	3P PLUG (M)	
<u>CAPACITOR</u>			
C721	1-108-638-00	MYLAR 0.1MF	10% 100V
C722	1-102-030-00	CERAMIC 330PF	10% 500V
C723	1-102-155-00	CERAMIC 330PF	20% 2KV
<u>COIL</u>			
L701	1-407-709-00	MICRO INDUCTOR 220UH	
<u>NEON LAMP</u>			
NL721	1-519-108-XX	LAMP, NEON ASSY	
<u>TRANSISTOR</u>			
Q701	8-729-322-78	TRANSISTOR 25C2278	
Q702	8-729-322-78	TRANSISTOR 25C2278	
Q703	8-729-322-78	TRANSISTOR 25C2278	
<u>RESISTOR</u>			
R710	1-213-158-00	METAL 18K	5% 1W F
R711	1-213-158-00	METAL 18K	5% 1W F
R712	1-213-158-00	METAL 18K	5% 1W F
R713	1-202-581-00	COMPISITION 2.2K	10% 1/2W
R714	1-202-581-00	COMPISITION 2.2K	10% 1/2W

NOTE:

The components identified by shading and mark ♣ are critical for safety. Replace only with part number specified.

• ♣: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

• Items marked "♣" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS
• MF : μ F, PF : μ PF

RESISTORS
• All resistors are in ohms
• F : nonflammable

COILS
• MH : mH, UH : μ H

NOTE:

The components identified by shading and mark ♣ are critical for safety. Replace only with part number specified.

• ♣: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

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• MF : μ F, PF : μ PF

RESISTORS
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• MH : mH, UH : μ H



Ref.No	Part No	Description	Remark
R715	1-202-581-00	COMPOSITION 2.2K 10% 1/2W	
R720	1-202-629-35	COMPOSITION 220K 10% 1/2W	
R721	1-246-537-00	CARBON 470K 5% 1/4W	
R723	1-202-647-35	COMPOSITION 1.2M 10% 1/2W	
R724	1-202-647-35	COMPOSITION 1.2M 10% 1/2W	
R725	1-202-621-00	COMPOSITION 100K 10% 1/2W	
R726	1-213-046-51	FUSIBLE 2.7 5% 1W F	
VARIABLE RESISTOR			
RV721	1-226-053-00	RES, ADJ, METAL GLAZE 3.3M	
SPARK GAP			
SG721	1-519-063-XX	DISCHARGING GAP 1.5K	
SG722	1-519-063-XX	DISCHARGING GAP 1.5K	
SG723	1-519-063-XX	DISCHARGING GAP 1.5K	
SG724	1-519-063-XX	DISCHARGING GAP 1.5K	

A-1345-294-A		D BOARD, COMPLETE	E-63

U TYPE BASE POST 4P			
LAMP HOLDER			
POST PIN			
HINGE, CIRCUIT BOARD			
HEAT SINK, H OUT			
HEAT SINK, PIN OUT			
CAPACITOR			
C501	1-102-189-00	CERAMIC 0.0047MF 125V	
C502	1-102-189-00	CERAMIC 0.0047MF 125V	
C503	1-102-189-00	CERAMIC 0.0047MF 125V	
C504	1-102-189-00	CERAMIC 0.0047MF 125V	
C505	1-123-364-00	ELECT 1000MF 20% 50V	
C506	1-123-357-00	ELECT 22MF 20% 50V	
C507	1-123-361-00	ELECT 220MF 20% 50V	
C508	1-102-115-00	CERAMIC 560PF 10% 50V	
C509	1-123-361-00	ELECT 220MF 20% 50V	
C510	1-102-115-00	CERAMIC 560PF 10% 50V	
C511	1-123-352-00	ELECT 1MF 20% 50V	
C512	1-108-638-00	MYLAR 0.1MF 10% 100V	
C513	1-108-630-11	MYLAR 0.022MF 10% 100V	
C514	1-108-622-11	MYLAR 0.0047MF 10% 100V	
C515	1-108-632-11	MYLAR 0.033MF 10% 100V	
C516	1-123-351-00	ELECT 0.47MF 20% 50V	
C517	1-108-614-11	MYLAR 0.001MF 10% 100V	
C518	1-102-002-51	CERAMIC 680P 10% 500V	
C519	1-123-354-00	ELECT 3.3MF 20% 50V	
C520	1-130-117-00	FILM 0.033MF 5% 100V	
C521	1-108-638-00	MYLAR 0.1MF 10% 100V	
C522	1-123-330-00	ELECT 22MF 20% 25V	
C523	1-123-253-00	ELECT 22MF 20% 160V	
C524	1-123-352-00	ELECT 1MF 20% 50V	
C525	1-102-106-00	CERAMIC 100PF 10% 50V	

Ref.No	Part No	Description	Remark
C526	1-102-106-00	CERAMIC 100PF 10% 50V	
C527	1-102-030-00	CERAMIC 330PF 10% 500V	
C528	1-130-118-00	FILM 0.051MF 5% 400V	
C529	1-129-708-00	FILM 0.0033MF 10% 630V	
C530	1-123-359-00	ELECT 47MF 20% 50V	
C531	1-123-331-00	ELECT 33MF 20% 25V	
C535	1-108-692-61	MYLAR 0.01MF 10% 200V	
C536	1-108-913-31	FILM 0.22MF 20% 300V	
C537	1-123-354-00	ELECT 3.3MF 20% 50V	
C538	1-108-632-11	MYLAR 0.033MF 10% 100V	
C539	1-108-640-11	MYLAR 0.15MF 10% 100V	
C540	1-123-318-00	ELECT 33MF 20% 16V	
C541	1-131-158-52	TANTALUM 10MF 20% 16V	
C542	1-123-322-00	ELECT 330MF 20% 16V	
C543	1-108-628-11	MYLAR 0.015MF 10% 100V	
C544	1-123-318-00	ELECT 33MF 20% 16V	
C545	1-123-331-00	ELECT 33MF 20% 25V	
C546	1-108-620-00	MYLAR 0.0033MF 10% 100V	
C547	1-102-030-00	CERAMIC 330PF 10% 500V	
C548	1-123-267-00	ELECT 2.2MF 20% 160V	
C549	1-123-351-00	ELECT 0.47MF 20% 50V	
C551	1-123-334-00	ELECT 220MF 20% 25V	
C552	1-123-316-00	ELECT 10MF 20% 16V	
C553	1-108-632-11	MYLAR 0.033MF 10% 100V	
C554	1-108-638-00	MYLAR 0.1MF 10% 100V	
C555	1-123-267-00	ELECT 2.2MF 20% 160V	
C556	1-102-106-00	CERAMIC 100PF 10% 50V	
C557	1-102-106-00	CERAMIC 100PF 10% 50V	
C558	1-102-002-00	CERAMIC 680PF 10% 500V	
C559	1-108-628-11	MYLAR 0.015MF 10% 100V	
C560	1-108-632-11	MYLAR 0.033MF 10% 100V	
C561	1-123-364-00	ELECT 1000MF 20% 50V	
C564	1-108-630-11	MYLAR 0.022MF 10% 100V	
C565	1-108-642-11	MYLAR 0.22MF 10% 100V	
CONNECTOR			
D1	1-508-765-00	3P PLUG (M)	
D2	1-508-766-00	4P PLUG (M)	
D3	1-508-765-00	3P PLUG (M)	
D4	1-508-765-00	3P PLUG (M)	
D5	1-508-786-00	2P PLUG (M)	
D6	1-508-786-00	2P PLUG (M)	
D7	1-508-784-00	1P PLUG	
DIODE			
D501	8-719-911-55	DIODE U05G	
D502	8-719-911-55	DIODE U05G	
D503	8-719-911-55	DIODE U05G	
D504	8-719-911-55	DIODE U05G	
D505	8-719-931-06	DIODE EQB01-06	
D506	8-719-815-55	DIODE 1S1555	
D507	8-719-931-07	DIODE EQB01-07	
D508	8-719-300-76	DIODE RH1A	

Ref.No	Part No	Description	Remark
D509	8-719-815-55	DIODE 1S1555	
D510	8-719-815-55	DIODE 1S1555	
D511	8-719-300-76	DIODE RH1A	
D512	8-719-300-70	DIODE RH1C	
D514	8-719-930-19	DIODE EQB01-19Z	
D515	8-719-815-55	DIODE 1S1555	
D516	8-719-815-55	DIODE 1S1555	
D517	8-719-815-55	DIODE 1S1555	
D518	8-719-200-02	DIODE 10E2	
D519	8-719-200-02	DIODE 10E2	
D520	8-719-200-02	DIODE 10E2	
D522	8-719-900-95	DIODE V09G	
D523	8-719-815-55	DIODE 1S1555	
D524	8-719-815-55	DIODE 1S1555	
D525	8-719-200-02	DIODE 10E2	
FUSE			
F501	1-532-286-00	TIME-LAG FUSE 2.5A	
F502	1-532-286-00	TIME-LAG FUSE 2.5A	
F503	1-532-078-00	TIME-LAG FUSE 1A	
COIL			
L501	1-405-760-00	COIL, OSC	
L502	1-407-198-XX	MICRO INDUCTOR 2.2MMH	
L503	1-435-056-00	HMC	
L504	1-435-056-00	HMC	
L505	1-407-191-XX	MICRO INDUCTOR 470UH	

L506	1-449-996-00	HMC	
TRANSISTOR			
Q501	8-729-663-47	TRANSISTOR 2SC1364	
Q502	8-729-663-47	TRANSISTOR 2SC1364	
Q503	8-729-663-47	TRANSISTOR 2SC1364	
Q504	8-729-384-48	TRANSISTOR 2SA844	
Q505	8-729-384-48	TRANSISTOR 2SA844	
Q506	8-729-663-47	TRANSISTOR 2SC1364	
Q507	8-727-580-26	TRANSISTOR 2SD625-803	
Q508	8-729-663-47	TRANSISTOR 2SC1364	
Q509	8-762-110-00	TRANSISTOR 2SC1670	
Q510	8-762-210-00	TRANSISTOR 2SA840	
Q511	8-762-110-00	TRANSISTOR 2SC1670	
Q513	8-729-663-47	TRANSISTOR 2SC1364	
Q517	8-729-307-62	TRANSISTOR 2SD476A03C	
RESISTOR			
R501	1-246-484-00	CARBON 3K 5% 1/4W	
R502	1-246-986-11	CARBON 39 5% 1/8W F	
R503	1-246-487-00	CARBON 3.9K 5% 1/4W	
R504	1-246-523-00	CARBON 120K 5% 1/4W	
R505	1-246-494-00	CARBON 7.5K 5% 1/4W	
R506	1-246-483-00	CARBON 2.7K 5% 1/4W	
R507	1-246-491-00	CARBON 5.6K 5% 1/4W	
R508	1-246-481-00	CARBON 2.2K 5% 1/4W	

Ref.No	Part No	Description	Remark
R509	1-246-509-00	CARBON 33K 5% 1/4W	
R510	1-246-477-00	CARBON 1.5K 5% 1/4W	
R511	1-246-459-00	CARBON 270 5% 1/4W	
R511	1-246-461-00	CARBON 330 5% 1/4W	
R511	1-246-465-00	CARBON 470 5% 1/4W	
R511	1-246-468-00	CARBON 620 5% 1/4W	
R511	1-246-471-00	CARBON 820 5% 1/4W	
R511	1-246-475-00	CARBON 1.2K 5% 1/4W	
R511	1-246-477-00	CARBON 1.5K 5% 1/4W	
R511	1-246-480-00	CARBON 2K 5% 1/4W	
R511	1-246-483-00	CARBON 2.7K 5% 1/4W	
R511	1-246-487-00	CARBON 3.9K 5% 1/4W	
R512	1-246-490-00	CARBON 5.1K 5% 1/4W	
R513	1-246-509-00	CARBON 33K 5% 1/4W	
R514	1-246-471-00	CARBON 820 5% 1/4W	
R515	1-246-489-00	CARBON 4.7K 5% 1/4W	
R516	1-246-499-00	CARBON 12K 5% 1/4W	
R517	1-246-483-00	CARBON 2.7K 5% 1/4W	
R518	1-246-497-00	CARBON 10K 5% 1/4W	
R520	1-246-487-00	CARBON 3.9K 5% 1/4W	
R521	1-246-477-00	CARBON 1.5K 5% 1/4W	
R522	1-246-425-00	CARBON 10 5% 1/4W	
R523	1-246-508-00	CARBON 30K 5% 1/4W	
R524	1-246-435-00	CARBON 27 5% 1/4W	
R525	1-246-467-00	CARBON 560 5% 1/4W	
R526	1-246-469-00	CARBON 680 5% 1/4W	
R527	1-244-885-00	CARBON 3.3K 5% 1/2W	
R528	1-206-648-00	METAL 220 5% 2W F	
R529	1-212-368-00	METAL 4.7 5% 1W F	
R530	1-202-805-00	COMPOSITION 10K 5% 1W F	
R531	1-246-981-00	CARBON 4.7 5% 1/8W F	
R532	1-246-979-00	CARBON 1.2 5% 1/8W F	
R534	1-205-532-00	WIREWOUND 3.3 10% 10W F	
R535	1-246-447-00	CARBON 82 5% 1/4W	
R535	1-246-453-00	CARBON 150 5% 1/4W	
R535	1-246-455-00	CARBON 180 5% 1/4W	
R535	1-246-457-00	CARBON 220 5% 1/4W	
R535	1-246-459-00	CARBON 270 5% 1/4W	
R535	1-246-461-00	CARBON 330 5% 1/4W	
R535	1-246-463-00	CARBON 390 5% 1/4W	
R535	1-246-465-00	CARBON 470 5% 1/4W	
R535	1-246-467-00	CARBON 560 5% 1/4W	
R536	1-244-877-00	CARBON 1.5K 5% 1/2W	
R537	1-246-501-25	CARBON 15K 5% 1/4W	
R545	1-246-496-00	CARBON 9.1K 5% 1/4W	
R546	1-246-461-00	CARBON 330 5% 1/4W	
R547	1-246-513-00	CARBON 47K 5% 1/4W	
R548	1-246-494-25	CARBON 7.5K 5% 1/4W	
R549	1-246-421-00	CARBON 6.8 5% 1/4W	
R550	1-246-413-00	CARBON 3.3 5% 1/4W	
R551	1-246-495-00	CARBON 8.2K 5% 1/4W	
R552	1-246-473-00	CARBON 1K 5% 1/4W	
R553	1-246-471-00	CARBON 820 5% 1/4W	

NOTE:

The components identified by shading and mark A are critical for safety. Replace only with part number specified.

• =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

• Items marked "A" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS
• MF : μ F, PF : μ uF

RESISTORS
• All resistors are in ohms
• F : nonflammable

COILS
• MMH : mH, UH : μ H

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• MMH : mH, UH : μ H

D H

Ref.No	Part No	Description	Remark
R554	1-246-505-00	CARBON 22K 5% 1/4W	
R555	1-246-471-00	CARBON 820 5% 1/4W	
R556	1-246-451-00	CARBON 120 5% 1/4W	
R557	1-246-872-11	CARBON 3.3 5% 1/4W F	
R558	1-246-872-11	CARBON 3.3 5% 1/4W F	
R559	1-246-465-00	CARBON 470 5% 1/4W	
R560	1-207-460-00	WIREWOUND 0.56 10% 1/2W F	
R561	1-246-485-25	CARBON 3.3K 5% 1/4W	
R564	1-246-467-00	CARBON 560 5% 1/4W	
R565	1-246-469-00	CARBON 680 5% 1/4W	
R566	1-246-480-00	CARBON 2K 5% 1/4W	
R567	1-246-511-00	CARBON 39K 5% 1/4W	
R568	1-246-485-00	CARBON 3.3K 5% 1/4W	
R569	1-246-469-00	CARBON 680 5% 1/4W	
R570	1-246-497-00	CARBON 10K 5% 1/4W	
R571	1-246-442-00	CARBON 51 5% 1/4W	
R573	1-246-441-00	CARBON 47 5% 1/4W	
R574	1-206-481-00	METAL 56 5% 2W F	
R577	1-244-907-00	CARBON 27K 5% 1/2W	
R578	1-206-479-00	METAL 47 5% 2W F	
VARIABLE RESISTOR			
RV501	1-222-517-12	RES, ADJ. CARBON 1K	
RV502	1-223-102-00	RES, ADJ. WIREWOUND 120	
RV503	1-222-786-12	RES, ADJ. CARBON 22K	
RV504	1-222-517-12	RES, ADJ. CARBON 1K	
RV505	1-222-786-12	RES, ADJ. CARBON 22K	
TRANSFORMER			
T501	1-437-021-00	TRANSFORMER, HORIZONTAL DRIVE	
T502	1-421-268-00	TRANSFORMER, HORIZONTAL DRIVE	
THERMISTOR			
TH501	1-800-070-XX	THERMISTOR TH-4700	
POSISTOR			
THP501	1-800-275-00	POSISTOR	

1-603-386-00	H BOARD		E-62
1-508-765-00	3P PLUG (M)		
DIODE			
D401	1-719-422-21	DIODE 1T22AM	
RESISTOR			
R401	1-246-485-00	CARBON 3.3K 5% 1/4W	
R402	1-246-495-00	CARBON 8.2K 5% 1/4W	
R403	1-246-485-00	CARBON 3.3K 5% 1/4W	
R404	1-246-480-00	CARBON 2K 5% 1/4W	
R405	1-246-501-00	CARBON 15K 5% 1/4W	

NOTE:

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

→: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

Items marked "Δ" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

CAPACITORS

MF: μ F, PF: μ PF

RESISTORS

All resistors are in ohms
F: nonflammable

COILS

MMH: mH, UH: μ H

Ref.No	Part No	Description	Remark
R406	1-246-501-00	CARBON 15K 5% 1/4W	
R407	1-246-517-00	CARBON 68K 5% 1/4W	
R409	1-246-493-00	CARBON 6.8K 5% 1/4W	
R410	1-246-482-00	CARBON 2.4K 5% 1/4W	
SWITCH			
S907	1-552-897-00	SWITCH, LEVER	
S908	1-552-897-00	SWITCH, LEVER	
S909	1-552-897-00	SWITCH, LEVER	

MISCELLANEOUS			
	1-226-052-00	RES, VAR, HIGH-VOLTAGE	
	1-452-032-00	MAGNET DISK; 10mm ϕ	F-5
	1-452-126-11	MAGNET	F-6
1-453-050-31	HIGH-VOLTAGE BLOCK, 100		E-54
1-509-805-00	3P CONNECTOR ASSY		
1-509-808-00	CONNECTOR, 4P		
1-509-825-00	6P CONNECTOR ASSY		
1-509-831-00	1P CONNECTOR ASSY		
1-509-833-00	CONNECTOR ASSY, MINIATURE, 1P		
1-509-834-32	CONNECTOR, 3P		
1-509-888-00	CONNECTOR ASSY, 2P		
1-551-450-00	CONNECTOR ASSY, 3P		
1-551-604-00	CONNECTOR ASSY, MINIATURE 3P		
1-551-605-00	CONNECTOR ASSY, MINIATURE 3P		
1-551-608-00	CONNECTOR ASSY, MINIATURE 3P		
1-551-616-00	CONNECTOR ASSY, MINIATURE 4P		
1-551-960-00	CONNECTOR ASSY, 1P		
1-555-026-00	CONNECTOR ASSY, MINIATURE 3P		
1-561-021-00	CONNECTOR ASSY, MINIATURE 3P		
CNJ901	1-561-167-00	CONNECTOR	E-2
CNJ902	1-561-167-00	CONNECTOR	E-2
CNJ903	1-561-167-00	CONNECTOR	E-2
CNJ904	1-561-167-00	CONNECTOR	E-2
CNJ905	1-561-167-00	CONNECTOR	E-2
CNJ906	1-561-167-00	CONNECTOR	E-2
F504	1-532-235-11	FUSE 315mA	
F505	1-532-078-11	FUSE 1A	
L901	1-451-145-00	DEFLECTION YOKE	E-58
L903	1-425-856-21	COIL, ERASE	E-60
L904	1-425-856-21	COIL, ERASE	E-60
NL901	1-519-125-81	LAMP, NEON ASSY	E-61
Q901	8-729-311-42	TRANSISTOR 25C1114-0	E-54
R901	1-244-646-11	RES, CARBON 75	
R902	1-244-646-11	RES, CARBON 75	
R903	1-244-646-11	RES, CARBON 75	
R906	1-202-837-00	RES, SOLID 82K 1/2W	
R907	1-205-603-00	RES, WIREWOUND 27 20W F	E-52
RV901	1-222-627-11	RES, VAR, CARBON 5K	E-66
RV902	1-224-619-00	RES, VAR, CARBON 5K	E-68

Ref.No	Part No	Description	Remark
RV903	1-222-388-11	RES, VAR, CARBON 20K	E-67
RV904	1-222-388-11	RES, VAR, CARBON 20K	E-67
SG901	1-519-030-00	DISCHARGE ELEMENT	
S901	1-553-330-00	SWITCH, PUSH (POWER)	E-51
S902	1-516-174-00	SWITCH	E-1
S903	1-514-459-11	SLIDE SWITCH	E-3
S904	1-514-459-11	SLIDE SWITCH	E-3
S905	1-514-459-11	SLIDE SWITCH	E-3
S906	1-514-459-11	SLIDE SWITCH	E-3
T901	1-446-841-00	TRANSFORMER, POWER	E-53
V901	1-8-737-705-05	PICTURE TUBE 220FB22	E-59

ACCESSORIES AND PACKING MATERIALS

Part No	Description	Remark
3-701-360-00	LABEL, TACK	
3-701-631-00	BAG, POLYETHYLENE	
4-340-203-00	PLATE, NUMBER	
4-340-231-00	BAG, PROTECTION	
4-340-247-00	CUSHION (FRONT)	
4-340-248-00	CUSHION (REAR)	
4-340-257-00	INDIVIDUAL CARTON	
4-495-991-11	MANUAL, INSTRUCTION	

NOTE:

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

→: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

Items marked "Δ" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

CAPACITORS

MF: μ F, PF: μ PF

RESISTORS

All resistors are in ohms
F: nonflammable

COILS

MMH: mH, UH: μ H

STANDARD PARTS LIST

**** CAPACITOR ELECT ****

uF	6.3V	10V	16V	25V	35V	50V	100V	160V	250V	350V
	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.
0.47						1-121-726				
1.0						391	1-123-249	1-123-252	1-123-003	1-121-168
2.2						450	250	026		1-123-028
3.3				1-121-382		393	1-121-995		004	006
4.7				395		396	1-123-255	1-121-246	1-121-729	007
10			1-121-651			738	1-121-126	999	1-123-254	008
22			479	480	1-121-662	152	996			022
33			403	404	652	405				
47		1-121-352	409	410	653	411	1-123-251	919		
100			414	415	352	417	084			
220	1-121-419	420	421	422	261	423				
330	751	805	521	654	655	656				
470	424	425	426	733	361	810				
1000		736	245	657	388	1-123-061				
2200	658		660	1-123-067	984					
3300	661	1-121-075	1-123-071							

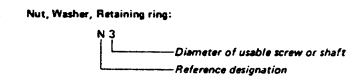
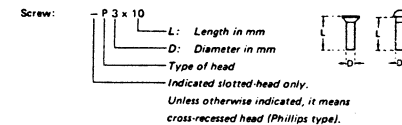
**** CAPACITOR ****

MYLAR				CERAMIC			
uF	50V	100V	200V	pF	Part No.	pF	Part No.
0.001	1-108-227	1-108-365	1-108-409	0.5	1-101-837	100	1-102-973
0.0012	351	365	410	0.75	586	110	815
0.0015	228	367	411	1.0	1-102-934	120	816
0.0018	352	368	412	1.5	1-101-576	130	1-101-081
0.0022	230	369	413	2.0	1-102-935	150	361
0.0027	353	370	414	3	936	160	367
0.0033	232	371	415	4	937	180	1-102-976
0.0039	354	372	416	5	942	200	917
0.0047	234	373	417	6	943	220	978
0.0056	355	374	418	7	944	240	979
0.0063	237	375	419	8	945	270	980
0.0082	356	376	420	9	946	300	981
0.01	239	377	421	10	947	330	820
0.012	357	378	422	11	948	360	821
0.015	240	379	423	12	949	390	822
0.018	358	380	424	13	950	430	823
0.022	242	381	425	15	951	470	824
0.027	359	382	426	16	932	510	1-101-059
0.033	244	383	427	18	953		
0.039	360	384	428	20	950		
0.047	246	385	429	22	959	560	1-102-115
0.056	361	386	430	24	960	630	116
0.068	249	387	431	27	961	820	117
0.082	362	388	432	30	962	1000	074
0.1	251	389	433	33	963	1200	118
0.12	363	390	434	36	964	1500	119
0.15	252	391	435	39	965	1800	120
0.18	364	392	436	43	966	2200	121
0.22	254	393	437	47	1-101-880	2700	122
0.27	854			51	882	3300	123
0.33	855			56	884	3900	124
0.39	856			62	886	4700	125
0.47	857			68	888	5600	126
				75	890	6800	127
				82	1-102-971	8200	128
				91	972	10000	129

1/4 WATT CARBON RESISTOR

Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.
1.01 1-246-401-00	101 1-246-423-00	1001 1-246-449-00	1.1K 1-246-473-00	10K 1-246-497-00	100K 1-246-521-00	1.0M 1-246-545-00	10M 1-246-569-00
1.11 402-00	111 426-00	1101 450-00	1.1K 474-00	11K 498-00	110K 522-00	1.1M 546-00	11M 570-00
1.21 403-00	121 427-00	1201 451-00	1.2K 475-00	12K 499-00	120K 523-00	1.2M 547-00	12M 571-00
1.31 404-00	131 428-00	1301 452-00	1.3K 476-00	13K 500-00	130K 524-00	1.3M 548-00	13M 572-00
1.51 405-00	151 429-00	1501 453-00	1.5K 477-00	15K 501-00	150K 525-00	1.5M 549-00	15M 573-00
1.61 1-246-406-00	161 1-246-430-00	1601 1-246-454-00	1.6K 1-246-578-00	16K 1-246-502-00	160K 1-246-526-00	1.6M 1-246-550-00	16M 1-246-574-00
1.81 407-00	181 431-00	1801 455-00	1.8K 579-00	18K 503-00	180K 527-00	1.8M 551-00	18M 575-00
2.01 408-00	201 432-00	2001 456-00	2.0K 580-00	20K 504-00	200K 528-00	2.0M 552-00	20M 576-00
2.21 409-00	221 433-00	2201 457-00	2.2K 581-00	22K 505-00	220K 529-00	2.2M 553-00	22M 577-00
2.41 410-00	241 434-00	2401 458-00	2.4K 582-00	24K 506-00	240K 530-00	2.4M 554-00	24M 578-00
2.71 1-246-411-00	271 1-246-435-00	2701 1-246-459-00	2.7K 1-246-583-00	27K 1-246-507-00	270K 1-246-531-00	2.7M 1-246-555-00	27M 1-246-579-00
3.01 412-00	301 436-00	3001 460-00	3.0K 584-00	30K 508-00	300K 532-00	3.0M 556-00	30M 580-00
3.31 413-00	331 437-00	3301 461-00	3.3K 585-00	33K 509-00	330K 533-00	3.3M 557-00	33M 581-00
3.61 414-00	361 438-00	3601 462-00	3.6K 586-00	36K 510-00	360K 534-00	3.6M 558-00	36M 582-00
3.91 415-00	391 439-00	3901 463-00	3.9K 587-00	39K 511-00	390K 535-00	3.9M 559-00	39M 583-00
4.31 1-246-416-00	431 1-246-440-00	4301 1-246-464-00	4.3K 1-246-488-00	43K 1-246-512-00	430K 1-246-536-00	4.3M 1-246-560-00	43M 1-246-584-00
4.71 417-00	471 441-00	4701 465-00	4.7K 489-00	47K 513-00	470K 537-00	4.7M 561-00	47M 585-00
5.11 418-00	511 442-00	5101 466-00	5.1K 490-00	51K 514-00	510K 538-00	5.1M 562-00	51M 586-00
5.61 419-00	561 443-00	5601 467-00	5.6K 491-00	56K 515-00	560K 539-00	5.6M 563-00	56M 587-00
6.21 420-00	621 444-00	6201 468-00	6.2K 492-00	62K 516-00	620K 540-00	6.2M 564-00	62M 588-00
6.81 1-246-421-00	681 1-246-445-00	6801 1-246-469-00	6.8K 1-246-493-00	68K 1-246-517-00	680K 1-246-541-00	6.8M 1-246-565-00	68M 1-246-589-00
7.51 422-00	751 446-00	7501 470-00	7.5K 494-00	75K 518-00	750K 542-00	7.5M 566-00	75M 590-00
8.21 423-00	821 447-00	8201 471-00	8.2K 495-00	82K 519-00	820K 543-00	8.2M 567-00	82M 591-00
9.11 424-00	911 448-00	9101 472-00	9.1K 496-00	91K 520-00	910K 544-00	9.1M 568-00	91M 592-00

HARDWARE NOMENCLATURE



Reference Designation	Shape	Description	Remarks
SCREWS			
P		pan-head screw	binding-head (B) screw for replacement
PWH		pan-head screw with washer face	binding-head (B) screw and flat washer for replacement
PS		pan-head screw with spring washer	binding-head (B) screw and spring washer for replacement
PSW		pan-head screw with spring and flat washers	binding-head (B) screw and spring and flat washers for replacement
R		round-head screw	binding-head (B) screw for replacement
K		flat-countersunk-head screw	
RK		oval-countersunk-head screw	
B		binding-head screw	
T		truss-head screw	binding-head (B) screw for replacement
F		flat-fillister-head screw	
RF		fillister-head screw	
BV		braizer-head screw	

Reference Designation	Shape	Description	Remarks
SELF-TAPPING SCREWS			
TA		self-tapping screw	ex: TA, P 3 x 10
PTP		pan-head self-tapping screw	binding-head self-tapping (TA, B) screw for replacement
PTPWH		pan-head self-tapping screw with washer face	binding-head self-tapping (TA, B) screw and flat washer for replacement
PTTWH		pan-head thread-rolling screw with washer face	binding-head (B) screw and flat washer for replacement
SET SCREWS			
SC		set screw	
SC		hexagon-socket set screw	ex: SC 2.6 x 4, hexagon socket
NUT			
N		nut	
WASHERS			
W		flat washer	
SW		spring washer	
LW		internal-tooth lock washer	ex: LW3, internal
LW		external-tooth lock washer	ex: LW3, external
RETAINING RINGS			
E		retaining ring	
G		grip-type retaining ring	

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— 44 —

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